CUMULATIVE (2020) WITH PROJECT WITH ALTERNATIVE 1 CONDITIONS (HCM METHODOLOGY) Cumulative (2020) + ProjectWed Jan 7, 2009 09:40:42

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Huntington Beach Traffic Impact Analysis Cumulative (2020) + Project AM Alt 1 no cross traffic

Scenario Report

Cumulative (2020) + Project AM (Alt 1 no cross) Scenario:

Command: Cumulative (2020) + Project AM (Alt 1 no cross) Volume: Cumulative (2020) + Project (Alt 1 no cross AM)

Volume:

Geometry:

Impact Fee:

Trip Generation:

Trip Distribution:

Paths:

Routes:

Cumulative (2020)

General Plan Build-Out

Default Impact Fee

None

None

Path

Default Path

Default Route

Configuration: Existing

Cumulative (2020) + ProjectWed Jan 7, 2009 09:40:42 Page 2-1

_____ Huntington Beach Traffic Impact Analysis

Cumulative (2020) + Project AM Alt 1 no cross traffic ______

Intersection			Base		Future	Change	
			Del/ V/		Del/ V/	in	
		LC	S Veh C	LO	S Veh C		
#	5 Pacific Coast Hwy / 9th St	A	2.9 0.600	Α	2.9 0.600	+ 0.000 D/V	
#	6 Pacific Coast Hwy / 6th St	С	25.7 0.714	С	25.7 0.714	+ 0.000 D/V	
	•						
#	7 Pacific Coast Hwy / Main St	A	7.7 0.523	A	7.7 0.523	+ 0.000 D/V	
	•						
#	8 Pacific Coast Hwy / 1st St	E	64.6 1.009	E	64.6 1.009	+ 0.000 D/V	
	•						
#	9 Pacific Coast Hwy / Huntington	Α	8.2 0.639	A	8.2 0.639	+ 0.000 D/V	
#	16 Main St / Adams Ave	В	16.2 0.454	В	16.2 0.454	+ 0.000 D/V	
#	17 Main St / Walnut Ave		0.0 0.000		0.0 0.000	+ 0.000 V/C	
#	18 Main St / Olive Ave		0.0 0.000		0.0 0.000	+ 0.000 V/C	
#	19 Main St / 6th St	В	15.1 0.259	В	15.1 0.259	+ 0.000 D/V	
#	20 Lake St / 6th St	A	8.2 0.116	A	8.2 0.116	+ 0.000 V/C	
	·						
#	21 Lake St / Orange Ave	С	15.2 0.642	С	15.2 0.642	+ 0.000 V/C	
#	22 1st St / Orange Ave & Atlanta	С	20.5 0.312	С	20.5 0.312	+ 0.000 D/V	
.,	3					·	
#	24 Beach Blvd / Pacific View Ave	Α	9.5 0.301	A	9.5 0.301	+ 0.000 D/V	
.,	,					,	

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Cumulative (2020) + ProjectWed Jan 7, 2009 09:40:42
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             Huntington Beach Traffic Impact Analysis
        Cumulative (2020) + Project AM Alt 1 no cross traffic
                      Level Of Service Computation Report
        2000 HCM Operations Method (Future Volume Alternative)
******************
Intersection #5 Pacific Coast Hwy / 9th St
************************
              100
Cycle (sec):
                           Critical Vol./Cap.(X):
             5 (Y+R=4.0 sec) Average Delay (sec/veh):
Loss Time (sec):
                                                  2.9
              30
Optimal Cycle:
                           Level Of Service:
************************
          Pacific Coast Hwy
                                         9th St
Street Name:
                     South Bound East Bound
Approach:
         North Bound
Movement: L - T - R L - T - R L - T - R
-----|
                      Protected
           Protected
                                  Protected
                                              Protected
Control:
            Include
                        Include
                                    Include
Rights:
          0 0 0
                     0 0
                             0
                                     0
                                  Ω
                                          0
                                                 0
                                                      0
Min. Green:
         0 0 2 0 1 1 0 2 0 0 0 0 0 0
                                             1 0 0 0 1
-----||-----||-----||------|
Volume Module:
           0 1445
                  12
                      23 1845
                                  0
                                      0
                                              47
Base Vol:
                              0
                                         0
Growth Adj: 1.00 1.00 1.00 1.00 1.00
                                1.00 1.00
                                        1.00
                                            1.00 1.00
                                                    1.00
          0 1445
                      23 1845
                            0
                  12
                                  0
                                      Ω
                                          0
                                              47
                                                  0
                                                     23
Initial Bse:
           0 0
                 0
                      0
                                  0
                                              0
                                                      0
Added Vol:
PasserByVol:
           0 .
             0
                  0
                      0
                          0 .
                              0
                                  0
                                      0
                                          0
                                              0
                                                      0
                      23 1845
Initial Fut:
           0 1445
                  12
                              0
                                  0
                                      0
                                          0
                                             47
                                                  0
                                                     23
         1.00 1.00 1.00
                           1.00
                                1.00 1.00 1.00 1.00 1.00 1.00
                   1.00 1.00
User Adj:
                    1.00 1.00
         1.00 1.00
                1.00
                            1.00
                                1.00 1.00
                                        1.00
                                            1.00 1.00
PHF Adj:
                  12
                                          0
                                              47
PHF Volume:
          0 1445
                      23 1845
                            0
                                  0
                                      0
                                                  0
                                                     23
                  0
                                  0
                                          0
                                              0
Reduct Vol:
           0
              0
                      0
                        0
                              0
                                      0
                                                  0
                                                      0
Reduced Vol:
           0 1445
                  12
                      23 1845
                              0
                                  0
                                      0
                                          0
                                              47
                                                  0
                                                     23
         1.00 1.00 1.00
                    1.00 1.00
                           1.00 1.00 1.00
                                        1.00
                                            1.00 1.00 1.00
PCE Adj:
         MLF Adj:
                12
                            0
                                  0
                                    0
                                        0
FinalVolume: 0 1445
                    23 1845
                                             47
-----||-----||-----|
Saturation Flow Module:
Sat/Lane:
        Adjustment: 1.00 1.00 1.00 1.00 1.00
                            1.00 1.00 1.00
                                        1.00 1.00 1.00
Final Sat.: 0 3400 1700 1700 3400
                            0
                                  0 0
                                        0 1700
-----||-----||-----|
Capacity Analysis Module:
Vol/Sat:
         0.00 0.43 0.01 0.01 0.54
                           0.00 0.00 0.00 0.00 0.03 0.00 0.01
        ***
Crit Moves:
Green/Cycle: 0.00 0.88 0.88 0.03 0.90
                           0.00 0.00 0.00 0.00
                                            0.05 0.00 0.05
         0.00 0.49 0.01
                    0.49 0.60 0.00 0.00 0.00 0.00
                                            0.60 0.00 0.29
Volume/Cap:
                            0.0
                                            59.1 0.0
Delay/Veh:
         0.0 1.5
                0.8
                    55.5 1.3
                                0.0 0.0
                                        0.0
User DelAdj: 1.00 1.00 1.00
                    1.00 1.00 1.00 1.00 1.00
                                        1.00
                                            1.00 1.00 1.00
AdjDel/Veh: 0.0 1.5
                0.8
                    55.5
                        1.3
                            0.0
                                 0.0 0.0
                                         0.0
                                            59.1 0.0
                  Α
                       Ε
                                  Α
                                          Α
                                              Ε
                                                      D
         A
                          Α
                             Α
                                      Α
                                                  Α
LOS by Move:
              Α
                  0
                             0
                                  0
                                          0
                       1
HCM2kAvqQ:
Note: Queue reported is the number of cars per lane.
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Cumulative (2020) + ProjectWed Jan 7, 2009 09:40:42
                                                     Page 4-1
              Huntington Beach Traffic Impact Analysis
         Cumulative (2020) + Project AM Alt 1 no cross traffic
       ______
                 Level Of Service Computation Report
         2000 HCM Operations Method (Future Volume Alternative)
*************************
Intersection #6 Pacific Coast Hwy / 6th St
******************
Cycle (sec):
                100
                              Critical Vol./Cap.(X):
Loss Time (sec):
               31 (Y+R=4.0 sec) Average Delay (sec/veh):
                                                       25.7
Optimal Cycle:
               97
                              Level Of Service:
*******************
                                              6th St
              Pacific Coast Hwy
Street Name:
Approach:
          North Bound
                       South Bound
                                    East Bound
          L - T - R L - T - R L - T - R
                                                 L - T - R
Movement:
Protected
                                       Permitted
                                                    Permitted
Control:
            Protected
                          Include
                                       Include
Rights:
             Include
                                                     Include
                                                            0
               0
                    0
                         0
                            0
                                 0
                                      0
                                         0
                                              0
                                                      0
Min. Green:
            0
                       1 0 2 1 0
                                    0 0 1! 0 0
          1 0 2 1 0
                                                 1 0 0 1 0
-----||-----||-----||------|
Volume Module:
           23 1172
                    74
                       141 1805
                                     34
                                         23
                                                  73
                                 34
                                              23
                                                      23
Base Vol:
                                                         1.00
Growth Adj: 1.00 1.00 1.00 1.00 1.00
                               1.00
                                    1.00 1.00
                                            1.00
                                                 1.00 1.00
           23 1172
                   74
                       141 1805
                                 34
                                     34
                                         23
                                              23
                                                  73
                                                      23
                                                          178
Initial Bse:
                    0
                        0
                                 0
                                      0
                                          0
                                              0
                                                   0
                                                       0
Added Vol:
           Ω
PasserByVol:
            0
                0
                    0
                         0
                             0
                                 0
                                      0
                                          0
                                              0
                                                   0
                                                       0
                                                            0
Initial Fut:
           23 1172
                   74
                       141 1805
                                 34
                                     34
                                         23
                                              23
                                                  73
                                                      23
                                                          178
                               1.00
                                   1.00 1.00
                                           1.00
                                                 1.00 1.00
         1.00 1.00
                 1.00
                      1.00 1.00
User Adj:
                  1.00
                               1.00
                                    1.00 1.00
                                            1.00
                                                 1.00 1.00
PHF Adj:
          1.00 1.00
                       1.00 1.00
                    74
                       141 1805
                                         23
                                              23
                                                  73
                                                      23
PHF Volume:
           23 1172
                                 34
                                     34
                                                          178
                    0
                                 0
                                         0
                                                   0
                                                       0
Reduct Vol:
           0
                0
                         0
                             0
                                      0
                                              0
Reduced Vol:
           23 1172
                    74
                       141 1805
                                 34
                                     34
                                         23
                                              23
                                                  73
                                                      23
                                                          178
          1.00 1.00 1.00
                       1.00 1.00
                               1.00
                                    1.00 1.00
                                            1.00
                                                 1.00 1.00
PCE Adj:
          1.00
                                                 1.00 1.00
MLF Adj:
                                                         1.00
                  74
                               34
                                         23
                                             23
FinalVolume: 23 1172
                       141 1805
                                     34
                                                  73
                                                          178
-----||-----||-----|
Saturation Flow Module:
Sat/Lane:
         1700 1700 1700
Adjustment: 1.00 1.00 1.00 1.00 1.00
                               1.00 1.00 1.00
                                            1.00 1.00 1.00
          1.00 2.82 0.18 1.00 2.94
                               0.06 0.42 0.29
                                            0.29 1.00 0.11
                  303 1700 5006
                               94
                                    723 489
                                             489 1700 195 1505
Final Sat.: 1700 4797
Capacity Analysis Module:
Vol/Sat:
          0.01 0.24 0.24
                       0.08 0.36
                               0.36 0.05 0.05 0.05
                                                 0.04 0.12
          ****
                           ****
Crit Moves:
Green/Cycle: 0.02 0.39 0.39
                               0.51
                                    0.17 0.17
                                            0.17
                       0.13 0.51
                                                 0.17 0.17
                                                         0.17
Volume/Cap: 0.71 0.62 0.62
                      0.62 0.71
                               0.71 0.28 0.28
                                            0.28
                                                 0.26 0.71
                                                         0.71
                  25.1
                               20.1 37.1 37.1
                                            37.1
                                                 36.9 47.8
Delay/Veh: 103.4 25.1
                       46.4 20.1
User DelAdj: 1.00 1.00
                  1.00
                       1.00 1.00
                               1.00 1.00 1.00
                                            1.00
                                                 1.00 1.00
AdjDel/Veh: 103.4 25.1
                  25.1
                       46.4 20.1
                               20.1 37.1 37.1
                                            37.1
                                                 36.9 47.8
                                                         47.8
                    С
                         D
                            С
                                 С
                                      D
                                          D
                                              D
                                                   D
                                                       D
                                                            D
LOS by Move: F
               C
                                      2
                                          2
                                               2
                         5
                                 15
           2
               11
                    11
                            15
HCM2kAvqQ:
Note: Queue reported is the number of cars per lane.
************************
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Cumulative (2020) + ProjectWed Jan 7, 2009 09:40:42
                                                       Page 5-1
               Huntington Beach Traffic Impact Analysis
         Cumulative (2020) + Project AM Alt 1 no cross traffic
      _____
                 Level Of Service Computation Report
         2000 HCM Operations Method (Future Volume Alternative)
*************
Intersection #7 Pacific Coast Hwy / Main St
**************
Cycle (sec):
                100
                                Critical Vol./Cap.(X):
                31 (Y+R=4.0 sec) Average Delay (sec/veh):
                                                          7.7
Loss Time (sec):
Optimal Cycle:
                                Level Of Service:
******************
               Pacific Coast Hwy
                                               Main St
Street Name:
                        South Bound
Approach:
           North Bound
                                        East Bound
                                                     West Bound
          L - T - R L - T - R L - T - R
                                                    L - T - R
Movement:
-----|----|----|-----|
                                                     Protected
            Protected
                          Protected
                                        Protected
Control:
                                         Include
                                                       Include
              Include
                            Include
Rights:
                                  0
                                          0
                                                        0
               0
                     0
                             0
Min. Green:
            0
           1 0 3 0 1 1 0 3 0 0
                                      0 0 0 0 0
                                                    1 0 0 0 1
Volume Module:
Base Vol:
           11 1150
                    0
                          0 1806
                                   0
                                        0
                                            0
Growth Adj: 1.00 1.00
                        1.00 1.00
                                1.00
                                     1.00 1.00
                                              1.00
                                                   1.00 1.00
                   1.00
           11 1150
                     0
                          0 1806
                                   0
                                        0
                                            0
                                                 0
                                                     0
                                                              0
Initial Bse:
                             0
                                   0
                                        0
                                            0
                                                 0
                                                     \cap
                                                              U
Added Vol:
            0
                0
                     0
                          0
                          0
                              0
                                   0
                                        0
                                            0
                                                 0
                                                     0
PasserByVol:
            0
                0
                     0
Initial Fut:
           11 1150
                     0
                          0 1806
                                   0
                                        0
                                            0
                                                 0
                                                     0
                                                         0
                                                              0
                  1.00
                                             1.00
          1.00 1.00
                       1.00 1.00
                                1.00
                                     1.00 1.00
                                                   1.00 1.00
User Adj:
                                1.00
                                     1.00 1.00
                                              1.00
                                                   1.00 1.00
          1.00 1.00
                   1.00
                        1.00 1.00
PHF Adj:
                                   0
                                        0
                                            0
                                                 0
                                                     0
                                                              0
PHF Volume:
           11 1150
                     0
                          0 1806
Reduct Vol:
                     0
                          0
                              0
                                   0
                                        0
                                            0
                                                 0
                                                     0
                                                         0
            0
                0
                          0 1806
Reduced Vol:
            11 1150
                     0
                                   Ω
                                        U
                                            Ω
                                                 O
                                                     O
                                                         O
                                                              0
PCE Adj:
          1.00 1.00
                   1.00
                        1.00 1.00
                                1.00
                                     1.00 1.00
                                              1.00
                                                   1.00 1.00
                                1.00
          1.00 1.00
                   1.00
                       1.00 1.00
                                     1.00 1.00
                                              1.00
                                                   1.00 1.00
MLF Adj:
                                   0
                                                 0
                   0
                          0 1806
                                        0
                                         0
                                                     0
FinalVolume: 11 1150
                   ----||------||------|
-----|----
Saturation Flow Module:
Sat/Lane:
          1700 1700
                   1700 1700 1700
                                1700 1700 1700
                                              1700 1700 1700
Adjustment: 1.00 1.00
                   1.00
                        1.00 1.00
                                1.00
                                     1.00 1.00
                                              1.00 1.00 1.00
                                                            1.00
          1.00 3.00
                   1.00
                        1.00 3.00
                                0.00
                                     0.00 0.00
                                              0.00 1.00 0.00
Lanes:
                                                 0 1700
Final Sat.: 1700 5100
                  1700 1700 5100
                                   0
                                        0
                                          0
-----||-----||-----||-----------------|
Capacity Analysis Module:
                        0.00 0.35
                                 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Vol/Sat:
          0.01 0.23 0.00
Crit Moves:
          ****
                            ****
Green/Cycle: 0.01 0.69
                        0.00 0.68
                                0.00
                                     0.00 0.00
                                              0.00
                                                   0.00 0.00
                  0.00
                   0.00
                        0.00 0.52
                                 0.00
                                     0.00 0.00
                                              0.00
                                                   0.00 0.00
                                                            0.00
Volume/Cap:
          0.52 0.33
                        0.0 8.2
                                 0.0
                                      0.0 0.0
                                              0.0
                                                    0.0 0.0
                                                            0.0
          70.9
               6.3
                   0.0
Delay/Veh:
                   1.00
                                1.00
                                     1.00 1.00
                                              1.00
                                                   1.00 1.00
User DelAdj: 1.00 1.00
                        1.00 1.00
                                      0.0
                                         0.0
AdjDel/Veh: 70.9 6.3
                    0.0
                         0.0 8.2
                                 0.0
                                               0.0
                                                    0.0
                                                       0.0
                                                             0.0
            Ε
                Α
                     Α
                          Α
                              Α
                                   Α
                                        Α
                                            Α
                                                 Α
                                                     Α
                                                         Α
                                                              Α
LOS by Move:
                5
                          0
                              9
                                   0
                                        0
                                            0
                                                 0
                                                     0
                                                         Ω
            1
                     0
   *****************
Note: Queue reported is the number of cars per lane.
****************
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Cumulative (2020) + ProjectWed Jan 7, 2009 09:40:43
                                                       Page 6-1
               Huntington Beach Traffic Impact Analysis
         Cumulative (2020) + Project AM Alt 1 no cross traffic
       Level Of Service Computation Report
         2000 HCM Operations Method (Future Volume Alternative)
***********************
Intersection #8 Pacific Coast Hwy / 1st St
******************
                100
Cycle (sec):
                                Critical Vol./Cap.(X):
                31 (Y+R=4.0 sec) Average Delay (sec/veh):
                                                         64.6
Loss Time (sec):
Optimal Cycle:
                163
                                Level Of Service:
******************
               Pacific Coast Hwy
                                                1st St
Street Name:
Approach:
           North Bound
                        South Bound
                                      East Bound
                                                    West Bound
                                                    L - T - R
           L - T - R
                       L - T - R L - T - R
Movement:
-----|
            Split Phase
                         Split Phase
                                       Split Phase
                                                     Split Phase
Control:
              Include
                            Include
                                         Include
                                                       Include
Rights:
                0
                     0
                             0
                                  0
                                           0
                                                 0
                                                        0
                                                              0
Min. Green:
            0
                          0
                                        0
                        1 0 2 1 0
                                      1 1 0 0 1
           1 0 2 1 0
                                                    1 1 0 0 2
Lanes:
-----||-----||-----|
Volume Module:
            45 998
                   168
                        121 1637
                                  68
                                       79
                                           45
                                                23
                                                    239
                                                         90
Base Vol:
                        1.00 1.00
Growth Adj: 1.00 1.00
                   1.00
                                 1.00
                                     1.00 1.00
                                              1.00
                                                   1.00 1.00
                                                            1.00
            45
               998
                    168
                         121 1637
                                  68
                                       79
                                           45
                                                23
                                                    239
                                                         90
                                                             190
Initial Bse:
                     0
                                   0
                                        0
                                            0
                                                         0
Added Vol:
            0
                0
                          0
                              0
                                                 0
                                                     0
                                                              0
                                   0
                                        0
                                            0
                                                 0
                                                         0
PasserByVol:
            0
                0
                     0
                          0
                              0
                                                     0
                                                              O
Initial Fut:
            45 998
                   168
                        121 1637
                                  68
                                       79
                                           45
                                                23
                                                    239
                                                         90
                                                             190
                                1.00
          1.00 1.00
                  1.00
                       1.00 1.00
                                     1.00 1.00
                                             1.00
                                                   1.00 1.00
User Adj:
          1.00 1.00
                   1.00
                        1.00 1.00
                                1.00
                                     1.00 1.00
                                              1.00
                                                   1.00 1.00
PHF Adj:
                                       79
                                                23
                                                    239
PHF Volume:
            45
              998
                    168
                         121 1637
                                  68
                                           45
                                                         90
                                                             190
            0
                     0
                                   0
                                        0
                                           0
                                                 0
                                                     0
                                                         0
Reduct Vol:
                0
                          0
                              0
                                                23
Reduced Vol:
            45
               998
                    168
                         121 1637
                                  68
                                       79
                                           45
                                                    239
                                                         90
                                                             190
PCE Adj:
          1.00 1.00
                   1.00
                        1.00 1.00
                                 1.00
                                     1.00 1.00
                                              1.00
                                                   1.00 1.00
          1.00 1.00
                   1.00
                        1.00 1.00
                                1.00
                                     1.00 1.00
                                              1.00
                                                   1.00 1.00
MLF Adj:
                                                            1.00
          45 998
                   168
                                 68
                                       79
                                           45
                                                23
                                                    239
                                                             190
FinalVolume:
                        121 1637
_____|
Saturation Flow Module:
Sat/Lane:
          1700 1700
                   1700
                        1700 1700
                                1700 1700 1700
                                              1700
                                                   1700 1700
Adjustment:
          1.00 1.00
                   1.00
                        1.00 1.00
                                 1.00 1.00 1.00
                                              1.00
                                                   1.00 1.00
          1.00 2.57
                   0.43 1.00 2.88
                                0.12 1.27 0.73
                                              1.00 1.45 0.55
                                                            2.00
Lanes:
Final Sat.: 1700 4365
                   735 1700 4897
                                203 2166 1234 1700 2470 930
-----||-----||-----|
Capacity Analysis Module:
                        0.07 0.33
Vol/Sat:
          0.03 0.23 0.23
                                 0.33 0.04 0.04 0.01
                                                   0.10 0.10 0.06
Crit Moves:
              ****
                            ****
                                     ****
                                                   ***
                                0.33 0.04 0.04
Green/Cycle: 0.23 0.23 0.23
                        0.33 0.33
                                              0.04
                                                   0.10 0.10
                                                            0.10
                                1.01 1.01 1.01
                                              0.37
                                                   1.01 1.01
Volume/Cap: 0.12 1.01
                   1.01
                        0.21 1.01
                                                            0.58
                                              50.9
                   67.4
                        24.3 57.5
                                 57.5 131.8
                                          132
                                                   97.3 97.3
                                                            46.0
Delay/Veh:
          30.9 67.4
User DelAdj: 1.00 1.00
                   1.00
                        1.00 1.00
                                1.00 1.00 1.00
                                              1.00
                                                   1.00 1.00
AdjDel/Veh: 30.9 67.4
                   67.4
                        24.3 57.5
                                 57.5 131.8
                                          132
                                              50.9
                                                   97.3 97.3
                                                            46.0
            С
                \mathbf{E}
                     \mathbf{E}
                          C
                             \mathbf{E}
                                  Ε
                                        F
                                            F
                                                 D
                                                     F
                                                         F
                                                              Ď
LOS by Move:
                          3
                                        5
                                            5
                                                      9
            1
                18
                    18
                             25
                                  25
                                                 1
  Note: Queue reported is the number of cars per lane.
*************************
```

```
Cumulative (2020) + ProjectWed Jan 7, 2009 09:40:43
                                                          Page 7-1
                Huntington Beach Traffic Impact Analysis
          Cumulative (2020) + Project AM Alt 1 no cross traffic
                  Level Of Service Computation Report
          2000 HCM Operations Method (Future Volume Alternative)
***********************
Intersection #9 Pacific Coast Hwy / Huntington St
**************************
                                  Critical Vol./Cap.(X):
                 100
Cycle (sec):
                5 (Y+R=4.0 sec) Average Delay (sec/veh):
                                                              8.2
Loss Time (sec):
Optimal Cycle:
                  33
                                  Level Of Service:
*********************
                Pacific Coast Hwy
                                               Huntington St
Street Name:
Approach:
            North Bound
                          South Bound
                                        East Bound
           L - T - R
                         L - T - R \quad L - T - R
                                                      L - T - R
Movement:
-----||-----||-----||-----|
             Protected
                            Protected
                                           Permitted
Control:
                                                         Permitted
                             Include
                                            Include
Rights:
               Include
                                                          Include
                0
                            0
                               0
                                     0
                                          0
                                             0
                                                   0
                                                         0
                                                             0
                                                                  0
Min. Green:
             0
                      0
                                        0 1 0 1 0
                          1 0 2 0 1
           1 0 2 0 1
                                                       1 1 0 0 1
Lanes:
-----||-----||-----||------|
Volume Module:
            56 1103
                           26 1776
Base Vol:
                     163
                                    11
                                         11
                                              23
                                                   45
                                                       109
                                                                 23
                                                            68
                                                               1.00
Growth Adj: 1.00 1.00
                   1.00
                         1.00 1.00
                                  1.00
                                       1.00 1.00
                                                 1.00
                                                      1.00 1.00
            56 1103
                     163
                           26 1776
                                    11
                                         11
                                              23
                                                   45
                                                       109
                                                            68
                                                                 23
Initial Bse:
             0
                       0
                            0
                                     0
                                          0
                                              0
                                                         0
                                                                  0
Added Vol:
PasserByVol:
             0
                  0
                       0
                            0
                                0
                                     0
                                          0
                                              0
                                                   0
                                                         0
                                                             0
                                                                  0
Initial Fut:
            56 1103
                    163
                           26 1776
                                    11
                                         11
                                              23
                                                   45
                                                       109
                                                            68
                                                                 23
                                  1.00
                                                1.00
           1.00 1.00 1.00
                        1.00 1.00
                                       1.00 1.00
                                                      1.00 1.00
                                                               1.00
User Adj:
                                  1.00
                                        1.00 1.00
                                                 1.00
PHF Adj:
           1.00 1.00
                   1.00
                         1.00 1.00
                                                      1.00 1.00
            56 1103
PHF Volume:
                     163
                           26 1776
                                    11
                                         11
                                              23
                                                   45
                                                       109
                                                            68
                                                                 23
Reduct Vol:
             0
                  0
                       0
                            0
                                0
                                     0
                                          0
                                              0
                                                    0
                                                         0
                                                             0
                                                                  0
Reduced Vol:
            56 1103
                     163
                           26 1776
                                    11
                                         11
                                              23
                                                   45
                                                       109
                                                            68
                                                                 23
PCE Adj:
           1.00 1.00
                    1.00
                         1.00 1.00
                                  1.00
                                       1.00 1.00
                                                 1.00
                                                      1.00 1.00
           1.00 1.00
                         1.00 1.00
                   1.00
                                  1.00 1.00 1.00
                                                 1.00
                                                      1.00 1.00
MLF Adj:
                                                               1.00
FinalVolume:
                                              23
            56 1103
                    163
                           26 1776
                                    11
                                         11
                                                  45
                                                       109
                                                                 23
-----||-----||-----|
Saturation Flow Module:
Sat/Lane:
           1700 1700 1700
                         1700 1700
                                  1700 1700 1700
                                                 1700
                                                      1700 1700
                                                               1700
           1.00 1.00 1.00
                         1.00 1.00
                                  1.00
                                       1.00 1.00
                                                 1.00
                                                      1.00 1.00
                                                               1.00
Adjustment:
                                  1.00
           1.00 2.00 1.00
                         1.00 2.00
                                       0.32 0.68
                                                 1.00 1.23 0.77
                                                               1.00
Lanes:
Final Sat.: 1700 3400 1700 1700 3400 1700
                                                 1700 2094 1306
                                        550 1150
-----||-----||-----|
Capacity Analysis Module:
Vol/Sat:
           0.03 0.32 0.10
                         0.02 0.52
                                  0.01 0.02 0.02 0.03
                                                      0.05 0.05
                                                               0.01
Crit Moves:
                             ***
                                        0.08 0.08
Green/Cycle: 0.05 0.83 0.83
                         0.04 0.82
                                  0.82
                                                 0.08
                                                      0.08 0.08
Volume/Cap: 0.64 0.39
                    0.12
                         0.39 0.64
                                  0.01
                                       0.25 0.25
                                                 0.33
                                                      0.64 0.64
                                                               0.17
Delay/Veh:
           61.3 2.2
                     1.6
                         50.7 4.0
                                  1.7
                                        43.5 43.5
                                                 44.1
                                                      49.5 49.5
User DelAdj: 1.00 1.00
                   1.00
                         1.00 1.00
                                  1.00 1.00 1.00
                                                 1.00
                                                      1.00 1.00
AdjDel/Veh: 61.3 2.2
                     1.6
                         50.7
                              4.0
                                   1.7
                                       43.5 43.5
                                                 44.1
                                                      49.5 49.5
                                                               43.3
                                          D
                                                    D
                                                         D
             Ε
                 Α
                       Α
                            D
                                Α
                                     Α
                                              D
                                                             D
                                                                  D
LOS by Move:
                                                    2
             3
                       1
                               11
                                    0
                                          1
Note: Queue reported is the number of cars per lane.
***********************
```

```
Cumulative (2020) + ProjectWed Jan 7, 2009 09:40:43
                                                       Page 8-1
               Huntington Beach Traffic Impact Analysis
         Cumulative (2020) + Project AM Alt 1 no cross traffic
     Level Of Service Computation Report
         2000 HCM Operations Method (Future Volume Alternative)
 ********************************
Intersection #16 Main St / Adams Ave
***********************************
Cycle (sec):
                100
                                Critical Vol./Cap.(X):
               5 (Y+R=4.0 sec) Average Delay (sec/veh):
Loss Time (sec):
                23
Optimal Cycle:
                               Level Of Service:
********************************
                   Main St
Street Name:
                                              Adams Ave
Approach:
          North Bound South Bound
                                       East Bound
                                                    West Bound
         L-T-R L-T-R L-T-R
                                                   L - T - R
-----|
Control:
             Permitted
                          Permitted
                                        Permitted
                                                      Permitted
                                                       Include
              Include
                           Include
                                        Include
            0
               0
                     0
                            0
                                   0
                                        0 0
                                                        0
Min. Green:
                          0
                                                0
                                                     Ω
                                                              0
           1 0 1 0 1
                        1 0 1 0 1 0 1 0 0 1
                                                    0 1 0 0 1
--------|----|-----||-----|
Volume Module:
Base Vol:
           23 432
                   119
                         56 425
                                  34
                                       11 259
                                                11
                                                    87 214
                                                             34
                       1.00 1.00
                                                            1.00
Growth Adj: 1.00 1.00
                   1.00
                                1.00
                                     1.00 1.00
                                              1.00
                                                   1.00 1.00
Initial Bse:
           23
              432
                    119
                         56
                            425
                                  34
                                          259
                                       11
                                                11
                                                    87
                                                        214
                                                             34
            0
                    0
                                   0
Added Vol:
                0
                          0
                              0
                                        0
                                            0
                                                0
                                                     0
                                                         0
PasserByVol:
            0
                     0
                          0
                0
                              0
                                   0
                                       0
                                            0
                                                0
                                                     0
                                                         0
                                                              0
Initial Fut:
           23 432
                   119
                         56 425
                                  34
                                       11
                                         259
                                                11
                                                    87
                                                        214
                                                             34
User Adj:
          1.00 1.00
                  1.00 1.00 1.00
                                1.00
                                     1.00 1.00
                                             1.00
                                                  1.00 1.00
PHF Adj:
          1.00 1.00
                  1.00
                       1.00 1.00
                                1.00
                                     1.00 1.00
                                              1.00
                                                   1.00 1.00
PHF Volume:
           23 432
                    119
                         56
                            425
                                  34
                                         259
                                                    87
                                       11
                                                11
                                                        214
                                                             34
Reduct Vol:
            0
                0
                     0
                          0
                              0
                                   0
                                                0
                                       0
                                            0
                                                     0
                                                         0
                                                              0
Reduced Vol:
           23 432
                   119
                         56
                            425
                                  34
                                       11
                                          259
                                                11
                                                    87
                                                        214
                                                             34
PCE Adj:
          1.00 1.00
                   1.00
                       1.00 1.00
                                1.00
                                     1.00 1.00
                                              1.00
                                                   1.00 1.00
MLF Adj:
          1.00 1.00
                   1.00
                       1.00 1.00
                               1.00
                                     1.00 1.00
                                              1.00
                                                  1.00 1.00
                                                           1.00
FinalVolume: 23 432
                   119
                         56 425
                                  34
                                       11 259
                                               11
                                                    87
                                                        214
Saturation Flow Module:
Sat/Lane:
          1700 1700
                  1700 1700 1700
                                1700 1700 1700
                                              1700 1700 1700
                                                            1700
Adjustment:
          1.00 1.00
                   1.00 1.00 1.00
                                1.00 1.00 1.00
                                              1.00 1.00 1.00
                                                            1.00
          1.00 1.00
                   1.00 1.00 1.00
                                1.00
                                     0.04 0.96
                                              1.00 0.29 0.71
Lanes:
                                                            1.00
Final Sat.: 1700 1700 1700 1700 1700 1700
                                       69 1631
                                              1700
                                                   491 1209
-----||-----||-----||------|
Capacity Analysis Module:
Vol/Sat:
          0.01 0.25
                  0.07 0.03 0.25 0.02 0.16 0.16 0.01
                                                   0.18 0.18
              ***
Crit Moves:
Green/Cycle: 0.56 0.56
                  0.56
                       0.56 0.56
                                0.56 0.39 0.39
                                              0.39
                                                   0.39 0.39
                                                            0.39
                                0.04
Volume/Cap: 0.02 0.45
                  0.13
                       0.06 0.45
                                     0.41 0.41
                                                   0.45 0.45
                                              0.02
                                                            0.05
                                     22.5 22.5
Delay/Veh:
           9.8 13.3
                  10.5
                       10.0 13.2
                                9.9
                                              18.7
                                                   23.1 23.1
                                1.00 1.00 1.00
User DelAdj: 1.00 1.00
                   1.00
                       1.00 1.00
                                              1.00
                                                   1.00 1.00
                                                           1.00
AdjDe1/Veh:
          9.8 13.3
                   10.5
                       10.0 13.2
                                 9.9
                                     22.5 22.5
                                              18.7
                                                   23.1 23.1
                                                           19.0
LOS by Move:
            Α
                В
                     В
                          В
                              В
                                  Α
                                       С
                                           С
                                                В
                                                     С
                                                         С
                                                              В
                     2
                                   0
            0
                8
                          1
                              8
                                        6
                                            6
                                                0
HCM2kAvqQ:
***********************************
Note: Queue reported is the number of cars per lane.
************************************
```

Cumulative (2020) + ProjectWed Jan 7, 2009 09:40:43						Page 9-1						
Huntington Beach Traffic Impact Analysis Cumulative (2020) + Project AM Alt 1 no cross traffic												
Level Of Service Computation Report 2000 HCM 4-Way Stop Method (Future Volume Alternative) ***********************************												
****						*****	*****	*****	****	****	*****	*****
Optimal Cycle	Cycle (sec): 100								.0			
Street Name: Approach: Movement:	Name: Main St ch: North Bound South Bound East				- Т	- R	West Bound L - T - R					
Control: Rights:	St	top Si Inclu	.gn ide	St	top Si Inclu	gn .de	St	op Si Inclu	.gn ide	Stop Sign Include		
Min. Green: Lanes:		0 0 1!	0 0		0 0 1!	0 0	-		0 0		0 0 1!	-
Volume Module Base Vol: Growth Adj: Initial Bse: Added Vol: PasserByVol: Initial Fut: User Adj: PHF Adj: PHF Volume: Reduct Vol: Reduct Vol: Reduced Vol: PCE Adj: MLF Adj: FinalVolume:	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	odule: 1.00 0.00	1.00	0 0 0 0.00 0.00 0 0 0.00 0.00 0.1	0 0 0.00 0.00 0 0	1.00	0 0 0 0 0.00 0 0 0 0 0 0.00 0 0.00	1.00	1.00	0 0 0 0.00 0.00 0 0.00 0.00 0.00	0 0.00 0 0 0 0 0.00 0 0 0.00 0 0.00 0	
Capacity Ana			I	-	-		-		-	-	-	-
Vol/Sat: Crit Moves: Delay/Veh:	0.00	0.00	0.00	0.00		0.00		0.00		0.00	0.00	0.00
Delay Adj: AdjDel/Veh: LOS by Move:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00
ApproachDel: Delay Adj: ApprAdjDel: LOS by Appr:		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AllWayAvgQ: *********	****	****	*****	****	*****		****	*****	0.0			0.0
Note: Queue reported is the number of cars per lane.												

Cumulative (2020) + ProjectWed Jan 7, 2009 09:40:43 Page 10-1 Huntington Beach Traffic Impact Analysis Cumulative (2020) + Project AM Alt 1 no cross traffic ._____ Level Of Service Computation Report 2000 HCM 4-Way Stop Method (Future Volume Alternative) ******************* Intersection #18 Main St / Olive Ave ******************* 100 Critical Vol./Cap.(X): Cycle (sec): Cycle (sec): 100 Critical Vol./Cap.(X):

Loss Time (sec): 0 (Y+R=4.0 sec) Average Delay (sec/veh):

Optimal Cycle: 0 Level Of Service: 0.0 *************************** Main St Olive Ave Street Name: Approach: North Bound South Bound East Bound West Bound Movement: L-T-R L-T-R L-T-RStop SignStop SignStop SignStop SignIncludeIncludeIncludeInclude000000 Control: Stop Sign Rights: Min. Green: Lanes: 0 0 1! 0 0 0 0 1! 0 0 0 0 1! 0 0 0 0 1! 0 0 ---**--**----|----||-----||-----||-----||-----| Volume Module: 0 0 0 0 0 0 0 0 0 Base Vol: Growth Adj: 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Initial Bse: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Added Vol: PasserByVol: 0 0 Initial Fut: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 PHF Adj: 0.00 0.00 0.00 0 0 0 0 0 0 0 PHF Volume: 0 0 0 0 0 Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Reduced Vol: Ω O PCE Adj: 0.00 MLF Adj: 0 0 0 0 0 0 FinalVolume: 0 0 0 -----||----||-----||-----| Saturation Flow Module: $0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00$ Lanes: Final Sat.: 0 0 0 0 0 0 0 0 Capacity Analysis Module: Crit Moves: Delay/Veh: 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Delay Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 AdjDel/Veh: 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 LOS by Move: 0.0 0.0 0.0 ApproachDel: 0.0 0.00 Delay Adj: 0.00 0.00 0.00 0.0 0.0 0.0 0.0 ApprAdjDel: LOS by Appr: Note: Queue reported is the number of cars per lane.

```
Cumulative (2020) + ProjectWed Jan 7, 2009 09:40:43
                                                    Page 11-1
              Huntington Beach Traffic Impact Analysis
         Cumulative (2020) + Project AM Alt 1 no cross traffic
                Level Of Service Computation Report
         2000 HCM Operations Method (Future Volume Alternative)
*******************************
Intersection #19 Main St / 6th St
******************************
Cycle (sec):
                100
                              Critical Vol./Cap.(X):
              5 (Y+R=4.0 sec) Average Delay (sec/veh):
17 Level Of Service:
Loss Time (sec):
Optimal Cycle:
                             Level Of Service:
******************************
Street Name:
                  Main St
                                             6th St
          North Bound South Bound
                                   East Bound
Approach:
                                                  West Bound
         L - T - R L - T - R L - T - R
                                                L - T - R
Movement:
Permitted Permitted Permitted
Control:
                                                  Permitted
            Include
                         Include
                                      Include
Rights:
                                                   Include
                       0 0 0
Min. Green:
          0 0 0
                                    0 0 0
                                                   0 0
                                                           0
          1 0 0 1 0 1 0 0 1 0 1 0 1
                                                 1 0 1 0 1
Volume Module:
           12 121
Base Vol:
                   12
                        22 130
                               164
                                    124
                                         65
                                             12
                                                  59
Growth Adj: 1.00 1.00 1.00 1.00 1.00
                               1.00 1.00 1.00
                                            1.00
                                                1.00 1.00
                                                         1.00
           12 121
                   12
                        22
                           130
                                164
                                             12
Initial Bse:
                                    124
                                         65
                                                  59
                                                      57
Added Vol:
           0
                   0
                         0
                                0
                                      0
                                         0
                            0
                                              0
                                                  0
                                                           0
PasserByVol:
           0
                0
                   0
                        0
                            0
                                 0
                                      0
                                         0
                                              0
                                                   0
                                                       0
                                                           0
Initial Fut:
           12 121
                   12
                        22 130
                               164
                                    124
                                         65
                                             12
                                                  59
                                                      57
                                                          11
User Adj:
         1.00 1.00 1.00 1.00 1.00
                              1.00 1.00 1.00 1.00
                                                1.00 1.00
         1.00 1.00
                 1.00
PHF Adj:
                      1.00 1.00
                              1.00
                                   1.00 1.00 1.00
                                                1.00 1.00
PHF Volume:
           12 121
                   12
                        22
                          130
                               164
                                    124
                                         65
                                             12
                                                  59
                                                      57
Reduct Vol:
           0
                0
                    0
                         0
                           0
                                 0
                                      0
                                         0
                                             0
                                                  0
                                                      n
                                                           Ω
Reduced Vol:
           12 121
                   12
                        22
                          130
                                164
                                    124
                                         65
                                             12
                                                  59
                                                      57
PCE Adj:
         1.00 1.00 1.00
                      1.00 1.00
                              1.00 1.00 1.00 1.00
                                                1.00 1.00
                                                        1.00
         MLF Adj:
                                                1.00 1.00
                                                        1.00
FinalVolume: 12 121
                 12
                       22 130
                               164
                                    124
                                       65
                                            12
                                                  59
-----||----||-----||------|
Saturation Flow Module:
Sat/Lane:
         1700
                                                1700 1700 1700
         1.00 1.00 1.00 1.00 1.00 1.00 1.00
                                            1.00 1.00 1.00 1.00
Adjustment:
         1.00 0.91 0.09 1.00 0.44 0.56 1.00 1.00
                                            1.00 1.00 1.00 1.00
Lanes:
Final Sat.: 1700 1547 153 1700 752 948 1700 1700 1700 1700 1700 1700
-----||-----||-----||------|
Capacity Analysis Module:
Vol/Sat:
       0.01 0.08 0.08 0.01 0.17
                               0.17 0.07 0.04 0.01
                                                0.03 0.03 0.01
Crit Moves:
Green/Cycle: 0.67 0.67 0.67
                                   0.28 0.28 0.28
                      0.67 0.67
                              0.67
                                                0.28 0.28
                                                        0.28
Volume/Cap: 0.01 0.12 0.12
                      0.02 0.26
                              0.26
                                                0.12 0.12
                                   0.26 0.14
                                           0.03
Delay/Veh:
          5.5 6.0
                  6.0
                       5.6 6.8
                              6.8 28.1 26.9
                                           26.0
                                                26.8 26.8 26.0
User DelAdj: 1.00 1.00 1.00
                      1.00 1.00 1.00 1.00 1.00
                                            1.00
                                                1.00 1.00 1.00
AdjDel/Veh:
          5.5 6.0
                  6.0
                       5.6 6.8
                               6.8 28.1 26.9
                                            26.0
                                                26.8 26.8
LOS by Move:
                    Α
                        Α
                                Α
                                      С
                                         C
                                              С
                                                   С
                                                      С
                                                           С
          Α
               Α
                            Α
                   1
                                      3
                                         2
                         0
                                4 .
                                              0
Note: Queue reported is the number of cars per lane.
******************************
```

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Cumulative (2020) + ProjectWed Jan 7, 2009 09:40:43 Page 12-1
            Huntington Beach Traffic Impact Analysis
       Cumulative (2020) + Project AM Alt 1 no cross traffic
              Level Of Service Computation Report
       2000 HCM 4-Way Stop Method (Future Volume Alternative)
*******************************
Intersection #20 Lake St / 6th St
********************************
Cycle (sec):
             100
                         Critical Vol./Cap.(X):
Loss Time (sec): 0 (Y+R=4.0 sec) Average Delay (sec/veh): Optimal Cycle: 0 Level Of Service:
********************************
           Lake St
                                      6th St
Street Name:
Approach: North Bound South Bound East Bound West Bound Movement: L - T - R L - T - R L - T - R
Stop Sign Stop Sign Stop Sign
Control:
         Include
                    Include
                               Include
Rights:
                                           Include
                    0 0 0
         0 0 0
                               0 0 0
                                           0 0
Min. Green:
                                                  0
Lanes: 1 0 0 1 0 1 0 1 0 1 0 1 0 0 1 0 1 0 1
Volume Module:
              0
          2
            56
                    54
Base Vol:
                      42
                           66
                                   26
                                             79
                               41
                                      4
                                           0
1.00
Initial Bse: 2 56
              0 54
                       42
                           66
                              41
                                  26
                                     4
                                         0
            0
                 0
                    0
                           0
                               0
                                  0
                                       0
Added Vol:
                       0
                                                 0
                0
PasserByVol:
          0
            0
                    0
                        0
                           0
                                0
                                   0
                                       0
                                           0
                                              0
                                                  0
Initial Fut:
                   54
         2
            56
               0
                       42
                          66
                               41
                                  26
                                       4
                                             79
                                           0
                                                 17
User Adj: 1.00 1.00 1.00 1.00 1.00
                         1.00 1.00 1.00 1.00 1.00 1.00
        1.00 1.00 1.00
PHF Adj:
                   1.00 1.00
                         1.00
                              1.00 1.00 1.00
                                         1.00 1.00
PHF Volume:
        2
            56
               0
                          66
                               41
                                  26
                    54
                      42
                                     4
                                           0
                                             79
Reduct Vol:
          0
            0
                 0
                    0
                       0
                           0
                               0
                                  0
                                       0
                                           Ω
                                             0
                                                  Λ
Reduced Vol:
         2
            56
                0
                    54
                       42
                           66
                               41
                                  26
                                             79
PCE Adj:
       1.00 1.00 1.00
       MLF Adj:
FinalVolume: 2
            56
               0
                   54 42
                          66
                              41
                                 26
                                      4
                                           0
Saturation Flow Module:
Lanes:
        1.00 1.00 0.00 1.00 1.00 1.00 0.61 0.39 1.00 0.00 1.00 1.00
Final Sat.: 623 684 0
                    625 685 790 392 248 778
Capacity Analysis Module:
Vol/Sat: 0.00 0.08 xxxx 0.09 0.06 0.08 0.10 0.10 0.01 xxxx 0.12 0.02
Crit Moves: ****
                   ****
                              ****
                                            ****
Delay/Veh:
        8.3 8.2
              0.0
                   8.8 8.1
                           7.5
                              8.7 8.7
                                      7.1
                                         0.0 8.4
Delay Adj:
        1.00 1.00 1.00
                          1.00 1.00 1.00
                   1.00 1.00
                                     1.00 1.00 1.00
                                                1.00
AdjDel/Veh: 8.3 8.2
                0.0
                    8.8 8.1
                           7.5
                              8.7 8.7
                                      7.1
                                          0.0 8.4
                                                 7.2
LOS by Move: A A
                      A
                                 A
                                             Α
                       8.1
                                  8.6
ApproachDel:
           8.2
                                             8.2
Delay Adj:
           1.00
                      1.00
                                 1.00
                                            1.00
ApprAdjDel:
            8.2
                       8.1
                                  8.6
                                             8.2
LOS by Appr:
                                   Α
AllWayAvgQ: 0.0 0.1 0.1 0.1 0.1 0.1
                              0.1 0.1 0.0 0.1 0.1
Note: Queue reported is the number of cars per lane.
```

```
Cumulative (2020) + ProjectWed Jan 7, 2009 09:40:43 Page 13-1
    Huntington Beach Traffic Impact Analysis
         Cumulative (2020) + Project AM Alt 1 no cross traffic
                Level Of Service Computation Report
         2000 HCM 4-Way Stop Method (Future Volume Alternative)
********************
Intersection #21 Lake St / Orange Ave
***********************************
Cycle (sec):
               100
                             Critical Vol./Cap.(X):
Loss Time (sec): 0 (Y+R=4.0 sec) Average Delay (sec/veh): Optimal Cycle: 0 Level Of Service:
                                                     15.2
**************************************
            Lake St
Street Name:
                                           Orange Ave
        North Bound South Bound East Bound L - T - R L - T - R
Approach:
                                                 West Bound
Movement:
                                               L - T - R
Stop Sign Stop Sign Stop Sign
                                                 Stop Sign
Rights:
             Include
                        Include
                                     Include
                                                  Include
           0 0 0
                        0 0 0
                                    0 0 0
Min. Green:
                                                  0 0
                                                          0
Lanes:
          Volume Module:
Base Vol:
           62
              29
                   19
                       40 105
                                32
                                    62 267
                                            88
                                                 43 324
                                                         53
Growth Adj: 1.00 1.00 1.00
                      1.00 1.00 1.00
                                   1.00 1.00
                                           1.00
                                               1.00 1.00
                                                        1.00
                 19
                                32
Initial Bse: 62
              29
                       40
                          105
                                    62
                                       267
                                             88
                                                 43
Added Vol:
           0
               0
                   0
                        0
                            0
                                0
                                     0
                                        0
                                             0
                                                 0
                                                     0
                                                          0
PasserByVol:
           0
               0
                   0
                        0
                            0
                                0
                                     0
                                         0
                                             0
                                                 0
                                                     0
                                                          0
              29
                                32
Initial Fut:
           62
                   19
                      40 105
                                    62 267
                                            88
                                                 43
                                                   324
                                                         53
                                   1.00 1.00 1.00
User Adj:
         1.00 1.00 1.00
                      1.00 1.00
                             1.00
                                               1.00 1.00 1.00
         1.00 1.00
                 1.00
                      1.00 1.00
                              1.00
                                   1.00 1.00
PHF Adj:
                                           1.00
                                               1.00 1.00
                                                        1.00
PHF Volume:
           62
              29
                   19
                        40
                          105
                                32
                                    62
                                       267
                                            88
                                                 43
                                                    324
                                                         53
Reduct Vol:
           0
               0
                   0
                        0
                            0
                                0
                                    0
                                        0
                                            0
                                                 0
                                                          0
                                                     0
Reduced Vol:
              29
                   19
                          105
                                32
                                       267
           62
                       40
                                    62
                                             88
                                                 43
                                                    324
                                                         53
                 1.00
                      1.00 1.00
PCE Adj:
         1.00 1.00
                             1.00
                                   1.00 1.00
                                               1.00 1.00
                                           1.00
                                                       1.00
         1.00 1.00 1.00
                      1.00 1.00 1.00
                                  1.00 1.00 1.00
MLF Adj:
                                               1.00 1.00
                                                       1.00
FinalVolume: 62
              29
                 19
                       40 105
                                32
                                            88
                                    62 267
                                                 43 324
Saturation Flow Module:
Lanes:
         0.57 0.26 0.17 0.23 0.59 0.18 0.15 0.64
                                           0.21 0.10 0.77
                                                        0.13
Final Sat.: 275 128 84 119 311 95 98 421
                                          139
                                               67 505
-----||-----||-----||------|
Capacity Analysis Module:
Vol/Sat:
      0.23 0.23 0.23
                      0.34 0.34 0.34 0.63 0.63 0.63 0.64 0.64 0.64
Crit Moves: ****
                          ***
                                   * * * *
                                                   ***
                      11.7 11.7
                             11.7
Delay/Veh:
         10.9 10.9 10.9
                                   16.3 16.3 16.3
                                               16.7 16.7
         1.00 1.00 1.00
                      1.00 1.00 1.00 1.00 1.00 1.00
Delay Adj:
                                               1.00 1.00
                                                        1.00
AdjDel/Veh: 10.9 10.9 10.9
                      11.7 11.7
                              11.7
                                   16.3 16.3
                                           16.3
                                               16.7 16.7
LOS by Move:
           В В
                   В
                        в в
                                В
                                     C
                                             C
                                                  C
                                       С
                                                    С
                                                          C
ApproachDel:
             10.9
                          11.7
                                       16.3
                                                   16.7
Delay Adj:
             1.00
                          1.00
                                       1.00
                                                   1.00
ApprAdjDel:
             10.9
                          11.7
                                       16.3
                                                   16.7
LOS by Appr:
             В
                           В
                                        C
                                   1.5 1.5
AllWayAvgQ: 0.2 0.2
                 0.2 0.4 0.4
                             0.4
Note: Queue reported is the number of cars per lane.
```

```
Cumulative (2020) + ProjectWed Jan 7, 2009 09:40:43
                                                          Page 14-1
                Huntington Beach Traffic Impact Analysis
          Cumulative (2020) + Project AM Alt 1 no cross traffic
                  Level Of Service Computation Report
          2000 HCM Operations Method (Future Volume Alternative)
**********************************
Intersection #22 1st St / Orange Ave & Atlanta Ave
**********************************
                 100
                                  Critical Vol./Cap.(X):
Cycle (sec):
                5 (Y+R=4.0 sec) Average Delay (sec/veh):
                                                             20.5
Loss Time (sec):
Optimal Cycle:
                 18
                                 Level Of Service:
****************************
                      1st St
Street Name:
                                           Orange Ave & Atlanta Ave
Approach:
           North Bound
                         South Bound
                                          East Bound
           L - T - R \quad L - T - R
                                        L - T - R
                                                       L - T - R
Movement:
-----||-----||-----||------|
Control:
              Permitted
                            Permitted
                                          Protected
                                                         Protected
Rights:
               Include
                             Include
                                            Include
                                                           Include
Min. Green:
             0
                 0
                      0
                            0
                               0
                                     0
                                          0
                                             0
                                                    0
                                                            0
                                                                  0
           0 1 0 0 1
                         0 1 0 0 0
                                        1 0 1 1 0
                                                       1 0 0 1 0
Volume Module:
Base Vol:
            81
                 0
                     119
                               11
                                          0 199
                                                   70
                           11
                                     0
                                                       251
                                                           271
Growth Adj:
          1.00 1.00
                    1.00
                         1.00 1.00
                                   1.00
                                        1.00 1.00
                                                 1.00
                                                      1.00 1.00
                     119
                                             199
Initial Bse:
            81
                 Ω
                           11
                               11
                                     0
                                          0
                                                   70
                                                       251
                                                           271
                                                                  0
Added Vol:
             0
                  0
                       0
                            0
                                0
                                     0
                                          0
                                              0
                                                    0
                                                         0
                                                             0
PasserByVol:
             0
                 0
                       0
                            0
                                0
                                     0
                                          0
                                              0
                                                    0
                                                         0
                                                             0
                                                                  0
Initial Fut:
            81
                 0
                     119
                           11
                               11
                                     0
                                          0
                                            199
                                                   70
                                                       251
                                                           271
          1.00 1.00
                    1.00 1.00 1.00
                                  1.00
                                        1.00 1.00
                                                1.00
User Adj:
                                                      1.00 1.00
           1.00 1.00
                    1.00
                         1.00 1.00
                                   1.00
                                        1.00 1.00
                                                 1.00
                                                      1.00 1.00
PHF Adj:
PHF Volume:
                                                   70
            81
                 0
                     119
                           11
                               11
                                     0
                                          0
                                            199
                                                       251
                                                           271
                            0
                                0
                                     0
                                          0
                                                    0
Reduct Vol:
             0
                  0
                       0
                                              0
                                                         0
                                                             0
Reduced Vol:
            81
                 0
                     119
                           11
                               11
                                     0
                                          0
                                            199
                                                   70
                                                       251
                                                           271
                                  1.00
PCE Adj:
           1.00 1.00
                    1.00
                         1.00 1.00
                                        1.00 1.00
                                                 1.00
                                                      1.00 1.00
           1.00 1.00
                    1.00
                                  1.00 1.00 1.00
                                                 1.00
MLF Adj:
                         1.00 1.00
                                                      1.00 1.00
                                                               1.00
                               11
                                    0
                                          0 199
                                                  70
FinalVolume:
           81
               0
                     119
                           11
                                                       251
Saturation Flow Module:
Sat/Lane:
          1700 1700
                    1700
                         1700 1700
                                  1700 1700 1700
                                                 1700
                                                      1700 1700
Adjustment:
          1.00 1.00
                    1.00 1.00 1.00
                                   1.00
                                       1.00 1.00
                                                 1.00
                                                      1.00 1.00
                                                                1.00
          1.00 0.00
                    1.00 0.50 0.50
                                   0.00 1.00 1.48
                                                 0.52
                                                                0.00
Lanes:
                                                      1.00 1.00
Final Sat.: 1700
                 0 1700
                          850 850
                                   0 1700 2515
                                                 885
                                                      1700 1700
-----||-----||-----|
Capacity Analysis Module:
Vol/Sat:
           0.05 0.00 0.07
                         0.01 0.01 0.00
                                        0.00 0.08
                                                 0.08
                                                      0.15 0.16 0.00
Crit Moves:
                    ****
Green/Cycle: 0.22 0.00
                    0.22
                         0.22 0.22
                                   0.00
                                        0.00 0.25
                                                 0.25
                                                      0.47 0.73
                         0.06 0.06
Volume/Cap: 0.21 0.00
                    0.31
                                  0.00
                                        0.00 0.31
                                                 0.31
                                                      0.31 0.22
                                                                0.00
           31.9 0.0
                    32.8
                         30.6 30.6
                                   0.0
                                                 30.5
Delay/Veh:
                                        0.0 30.5
                                                      16.5
                                                      1.00 1.00
User DelAdj: 1.00 1.00
                    1.00
                         1.00 1.00
                                  1.00 1.00 1.00
                                                 1.00
                                                               1.00
AdjDel/Veh: 31.9
               0.0
                    32.8
                         30.6 30.6
                                   0.0
                                        0.0 30.5
                                                 30.5
                                                      16.5
                                                           4.6
                                                                0.0
             С
                 Α
                       С
                            С
                                С
                                     Α
                                          Α
                                              C
                                                    С
                                                         В
                                                                  Α
LOS by Move:
                                                             Α
             2
                       3
                 0
                            1
                                     0
                                          0
                                              3
                                                    3
HCM2 kAvqQ:
Note: Queue reported is the number of cars per lane.
*********************************
```

```
Cumulative (2020) + ProjectWed Jan 7, 2009 09:40:43 Page 15-1
               Huntington Beach Traffic Impact Analysis
         Cumulative (2020) + Project AM Alt 1 no cross traffic
                 Level Of Service Computation Report
         2000 HCM Operations Method (Future Volume Alternative)
*************
Intersection #24 Beach Blvd / Pacific View Ave
**********************
                 100
                                Critical Vol./Cap.(X):
Cycle (sec):
                                                           9.5
Loss Time (sec):
                 5 (Y+R=4.0 sec) Average Delay (sec/veh):
                                Level Of Service:
Optimal Cycle:
                18
***************
                  Beach Blvd
                                            Pacific View Ave
Street Name:
           North Bound
                       South Bound
                                        East Bound
Approach:
           L - T - R
                        L - T - R
                                      L - T - R
                                                    L - T - R
Movement:
-----||-----||-----||-----|
                                        Protected
                                                      Protected
             Protected
                          Protected
Control:
                            Include
                                          Include
                                                        Include
              Include
Rights:
                                           0
                                                          0
                                                               0
               0
                            0
                                   0
                                        0
             0
                     0
                          0
Min. Green:
                         1 0 2 1 0
                                      1 0 0 0 1
           1 0 3 0 0
                                                    0 0 0 0 0
-----||-----||-----||------|
Volume Module:
            34 457
                          0 857
                                                34
                                                      0
                     0
                                  154
                                       115
                                            0
Base Vol:
                   1.00
Growth Adj: 1.00 1.00
                        1.00 1.00
                                 1.00
                                      1.00 1.00
                                               1.00
                                                    1.00 1.00
                                  154
                                       115
                                                34
                                                      0
               457
                          0
                             857
                                            0
                                                          0
                                                               0
Initial Bse:
            34
                     0
                0
                             0
                                        0
                                            0
                                                 0
                                                      0
Added Vol:
            0
PasserByVol:
            0
                 0
                      0
                          0
                              0
                                   0
                                        0
                                            0
                                                 0
                                                      \cap
                                                          n
                                                               0
Initial Fut:
            34
              457
                     0
                          0 857
                                  154
                                       115
                                            0
                                                34
                                                      0
                                1.00
                                              1.00
                                                   1.00 1.00
          1.00 1.00
                  1.00
                        1.00 1.00
                                      1.00 1.00
User Adj:
                        1.00 1.00
                                 1.00
                                      1.00 1.00
                                               1.00
                                                    1.00 1.00
          1.00 1.00
                   1.00
PHF Adj:
                                  154
                                                34
                                                      0
                                                          0
              457
                          0
                            857
                                       115
                                            0
                                                               0
PHF Volume:
            34
                      0
                                                      0
Reduct Vol:
            0
                 0
                      0
                          0
                              0
                                   0
                                        0
                                            0
                                                 0
Reduced Vol:
            34
               457
                      0
                          0
                            857
                                  154
                                       115
                                            0
                                                34
                                                      0
                                                               O
          1.00 1.00
                   1.00
                        1.00 1.00
                                 1.00
                                      1.00 1.00
                                               1.00
                                                    1.00 1.00
PCE Adj:
                                               1.00
                                                    1.00 1.00
                   1.00
                        1.00 1.00
                                 1.00
                                      1.00 1.00
MLF Adj:
          1.00 1.00
                                                34
            34
              457
                     0
                          0 857
                                  154
                                       115
                                           0
FinalVolume:
Saturation Flow Module:
          1700 1700
                   1700 1700 1700
                                1700
                                      1700 1700
                                               1700
                                                    1700 1700
Sat/Lane:
          1.00 1.00 1.00 1.00 1.00
                                1.00
                                      1.00 1.00
                                               1.00
                                                    1.00 1.00
Adjustment:
          1.00 3.00 0.00 1.00 2.54
                                 0.46
                                      1.00 0.00
                                               1.00
                                                    0.00 0.00
                                777
                                      1700
                                              1700
Final Sat.: 1700 5100
                   0 1700 4323
                                          0
_____|
Capacity Analysis Module:
Vol/Sat:
          0.02 0.09 0.00
                        0.00 0.20
                                 0.20
                                      0.07 0.00 0.02
                                                   0.00 0.00 0.00
                                      ***
Crit Moves:
                                      0.22 0.00
                                               0.22
                                                    0.00 0.00
Green/Cycle: 0.07 0.73
                  0.00 0.00 0.66
                                0.66
Volume/Cap: 0.30 0.12
                   0.00
                        0.00 0.30
                                 0.30
                                      0.30 0.00
                                               0.09
                                                    0.00 0.00
                                               30.8
                                                     0.0 0.0
Delay/Veh:
          46.0
              4.2
                    0.0
                         0.0 7.3
                                 7.3
                                      32.7
                                           0.0
User DelAdj: 1.00 1.00
                   1.00
                        1.00 1.00
                                1.00
                                      1.00 1.00
                                               1.00
                                                    1.00 1.00
AdjDel/Veh: 46.0
              4.2
                    0.0
                         0.0
                            7.3
                                  7.3
                                      32.7
                                           0.0
                                               30.8
                                                     0.0 0.0
                                                             0.0
                                        С
                                            Α
                                                 С
                                                      Α
                                                          Α
                                                               Α
                          Α
                              Α
                                   Α
LOS by Move:
            D
                 Α
                     Α
                                        3
                     0
                          0
HCM2kAvqQ:
Note: Queue reported is the number of cars per lane.
***************
```

Appendix F, Traffic Impact Analysis - page 456 City of Huntington Beach - DTSP Update Program Environmental Impact Report Cumulative (2020) + ProjectWed Jan 7, 2009 09:45:16

Page 1-1

Huntington Beach Traffic Impact Analysis
Cumulative (2020) + Project PM Alt 1 no cross traffic

Scenario Report

Scenario: Cumulative (2020) + Project PM (Alt 1 no cross)

Command: Cumulative (2020) + Project PM (Alt 1 no cross)
Volume: Cumulative (2020) + Project (Alt 1 no cross PM)

Geometry: General Plan Build-Out Impact Fee: Default Impact Fee

Trip Generation: None
Trip Distribution: None
Paths: Defau

Paths: Default Path
Routes: Default Route
Configuration: Existing

Cumulative (2020) + ProjectWed Jan 7, 2009 09:45:16

Page 2-1

Huntington Beach Traffic Impact Analysis

Cumulative (2020) + Project PM Alt 1 no cross traffic

Intersection			Base			Future			Change		
				Del/	′ V/		Del	/ V/		in	
			LO	S Veh	С	$\mathbf{L}($	OS Veh	С			
#	5	Pacific Coast Hwy / 9th St	A	3.6	0.661	A	3.6	0.661	+	0.000	D/V
#	6	Pacific Coast Hwy / 6th St	D	45.3	0.991	D	45.3	0.991	+	0.000	D/V
#	7	Pacific Coast Hwy / Main St	A	8.9	0.478	A	8.9	0.478	+	0.000	D/V
#	8	Pacific Coast Hwy / 1st St	F	106.1	1.144	F	106.1	1.144	+	0.000	D/V
#	9	Pacific Coast Hwy / Huntington	A	10.0	0.697	A	10.0	0.697	+	0.000	D/V
#	16	Main St / Adams Ave	С	21.4	0.736	С	21.4	0.736	+	0.000	D/V
#	17	Main St / Walnut Ave		0.0	0.000		0.0	0.000	+	0.000	V/C
#	18	Main St / Olive Ave		0.0	0.000		0.0	0.000	+	0.000	V/C
#	19	Main St / 6th St	В	16.1	0.405	В	16.1	0.405	+	0.000	D/V
#	20	Lake St / 6th St	В	10.9	0.438	В	10.9	0.438	+	0.000	V/C
#	21	Lake St / Orange Ave	F	74.8	1.152	F	74.8	1.152	+	0.000	V/C
#	22	1st St / Orange Ave & Atlanta	С	23.2	0.462	С	23.2	0.462	+	0.000	D/V
#	24	Beach Blvd / Pacific View Ave	В	12.2	0.366	В	12.2	0.366	+	0.000	D/V

```
Cumulative (2020) + ProjectWed Jan 7, 2009 09:45:16 Page 3-1
             Huntington Beach Traffic Impact Analysis
        Cumulative (2020) + Project PM Alt 1 no cross traffic
               Level Of Service Computation Report
        2000 HCM Operations Method (Future Volume Alternative)
******************
Intersection #5 Pacific Coast Hwy / 9th St
******************
               100
                            Critical Vol./Cap.(X):
Cycle (sec):
              5 (Y+R=4.0 sec) Average Delay (sec/veh):
Loss Time (sec):
                                                    3.6
              35
                            Level Of Service:
Optimal Cycle:
**********************
                                           9th St
Street Name:
             Pacific Coast Hwy
         North Bound
                     South Bound
                                    East Bound
Approach:
        L - T - R L - T - R L - T - R
                                              L - T - R
Movement:
-----|
           Protected
                       Protected
                                    Protected
                                                Protected
                                     Include
             Include
                         Include
                                                 Include
Rights:
            0
                                    0 0
                                                   0
                                                        0
                         0
                              0
                                            0
                  0
                       0
Min. Green:
           0
          0 0 2 0 1 1 0 2 0 0 0 0 0 0
                                              1 0 0 0 1
Volume Module:
           0 1972
                                    0
                                      0
                                           0
                  38
                       23 1496
                               0
                                               59
Base Vol:
                     1.00 1.00
                             1.00
                                 1.00 1.00
                                         1.00
                                              1.00 1.00
Growth Adj: 1.00 1.00 1.00
                       23 1496
Initial Bse: 0 1972
                  38
                               0
                                    0
                                      0
                                            0
                                               59
                                                    Ω
                                                       23
                                                0
                                                        0
Added Vol:
           0
              0
                   0
                           0
PasserByVol:
           0
               0
                   0
                       0
                           0
                               0
                                    0
                                       0
                                            0
                                                0
                                                    0
                                                        0
           0 1972
                  38
                       23 1496
                               0
                                    0
                                       0
                                            0
                                               59
                                                    0
                                                       23
Initial Fut:
                            1.00
         1.00 1.00 1.00
                     1.00 1.00
                                 1.00 1.00
                                         1.00
                                             1.00 1.00
User Adj:
         1.00 1.00
                 1.00
                     1.00 1.00 1.00
                                  1.00 1.00
                                         1.00
                                              1.00 1.00
PHF Adj:
                             0
                                    0
                                       0
                                            0
                                               59
                                                    0
                                                       23
PHF Volume:
           0 1972
                  38
                       23 1496
Reduct Vol:
           Ω
               Ω
                   0
                       0
                           Ω
                               0
                                    0
                                       0
                                            0
                                                0
                                                        0
Reduced Vol:
           0 1972
                   38
                       23 1496
                               0
                                    0
                                       0
                                            0
                                               59
                                                       23
         1.00 1.00
                1.00
                     1.00 1.00 1.00
                                 1.00 1.00
                                         1.00
                                              1.00 1.00
PCE Adj:
                     1.00 1.00 1.00
                                 1.00 1.00
                                         1.00 1.00 1.00
                                                     1.00
MLF Adj:
         1.00 1.00
                1.00
FinalVolume:
           0 1972
                  38
                       23 1496
                              0
                                    0 0
                                           0
                                               59
Saturation Flow Module:
         1700 1700
                Sat/Lane:
1.00 1.00 2.00 0.00 0.00 0.00 0.00 1.00 0.00
         0.00 2.00
           0 3400
                1700 1700 3400 0
                                   0
                                     0
                                         0 1700
Final Sat.:
-----||-----||------|
Capacity Analysis Module:
Vol/Sat:
         0.00 0.58
                     0.01 0.44 0.00 0.00 0.00
                                         0.00
                                             0.03 0.00 0.01
Crit Moves:
Green/Cycle: 0.00 0.88 0.88
                     0.02 0.90 0.00
                                  0.00 0.00
                                          0.00
                                              0.05 0.00
                     0.66 0.49 0.00
                                 0.00 0.00
                                          0.00
                                              0.66 0.00
Volume/Cap: 0.00 0.66
                0.03
                                                      0.26
Delay/Veh:
          0.0 2.4
                 0.8
                     87.2 1.1
                             0.0
                                  0.0 0.0
                                          0.0
                                              63.5
                                                 0.0
User DelAdj: 1.00 1.00
                1.00
                     1.00 1.00
                            1.00 1.00 1.00
                                         1.00 1.00 1.00
AdjDel/Veh: 0.0 2.4
                  0.8
                     87.2 1.1
                              0.0
                                  0.0
                                      0.0
                                          0.0
                                             63.5 0.0
                                                Ε
                                                        D
                       F
                           Α
                                       Α
                                                    Α
          Α
              Α
                   Α
                               Α
                                    Α
                                            Α
LOS by Move:
        0
                   0
                       2
                              0
              10
HCM2kAvqQ:
***********
Note: Queue reported is the number of cars per lane.
******************
```

```
Cumulative (2020) + ProjectWed Jan 7, 2009 09:45:16
               Huntington Beach Traffic Impact Analysis
         Cumulative (2020) + Project PM Alt 1 no cross traffic
                 Level Of Service Computation Report
         2000 HCM Operations Method (Future Volume Alternative)
**************
Intersection #6 Pacific Coast Hwy / 6th St
*****************
                100
                                Critical Vol./Cap.(X):
Cycle (sec):
Loss Time (sec):
                31 (Y+R=4.0 sec) Average Delay (sec/veh):
                156
                                Level Of Service:
Optimal Cycle:
*****************
                                                6th St
               Pacific Coast Hwy
Street Name:
                         South Bound
                                      East Bound
                                                     West Bound
Approach:
           North Bound
                        L - T - R \qquad L - T - R
           L - T - R
Movement:
                                                    L - T - R
-----|
                                         Permitted
                                                       Permitted
             Protected
                          Protected
                            Include
                                          Include
                                                        Include
              Include
Rights:
                                                         0
                                                               0
              0
                     0
                            0
                                   0
                                        0
                                          0
                                                 0
                                                      0
Min. Green:
            0
                          0
                         1 0 2 1 0 0 0 1! 0 0
                                                     1 0 0 1 0
Lanes:
           1 0 2 1 0
Volume Module:
            45 1726
                                                79
                         216 1346
                                   34
                                        45
                                            23
                                                     115
                                                          34
Base Vol:
                    131
                                                              294
                                      1.00 1.00
                                                    1.00 1.00
Growth Adj: 1.00 1.00
                  1.00
                        1.00 1.00
                                 1.00
                                               1.00
                                                             1.00
                                            23
                                                79
                                                     115
                                                          34
                                                              294
            45 1726
                         216 1346
                                   34
                                        45
Initial Bse:
                    131
Added Vol:
            0
                 0
                     0
                          0
                                   0
                                        0
                                            0
                                                 0
                                                          Ω
                                                               0
PasserByVol:
            0
                0
                     0
                          0
                               0
                                   0
                                        0
                                            0
                                                 0
                                                      0
                                                          0
                                                               0
                         216 1346
                                   34
                                        45
                                            23
                                                79
                                                    115
                                                          34
                                                              294
            45 1726
                    131
Initial Fut:
                                                    1.00 1.00
          1.00 1.00
                  1.00
                        1.00 1.00
                                1.00
                                      1.00 1.00
                                              1.00
User Adj:
                        1.00 1.00
                                 1.00
                                      1.00 1.00
                                               1.00
                                                    1.00 1.00
          1.00 1.00
                   1.00
PHF Adj:
                                            23
                                                 79
                                                     115
PHF Volume:
            45 1726
                    131
                         216 1346
                                   34
                                        45
                                                          34
                                                              294
Reduct Vol:
            0
                 0
                     0
                          0
                               Ω
                                   0
                                        0
                                            0
                                                 O
                                                      0
                                                          Ω
                                                               0
            45 1726
                    131
                         216 1346
                                   34
                                        45
                                            23
                                                 79
                                                     115
                                                          34
                                                              294
Reduced Vol:
                                 1.00
                                      1.00 1.00
                                                    1.00 1.00
          1.00 1.00
                   1.00
                        1.00 1.00
                                               1.00
                                                             1.00
PCE Adj:
          1.00 1.00
                   1.00
                        1.00 1.00
                                 1.00
                                      1.00 1.00
                                               1.00
                                                    1.00 1.00
                                                             1.00
MLF Adj:
                                   34
                                        45
                                            23
                                                79
                                                     115
                                                              294
FinalVolume:
            45 1726
                    131
                         216 1346
Saturation Flow Module:
          1700 1700 1700 1700 1700
                                 1700 1700 1700
                                               1700
                                                    1700 1700
Sat/Lane:
                   1.00 1.00 1.00
                                 1.00 1.00 1.00
                                               1.00 1.00 1.00
          1.00 1.00
Adjustment:
                                               0.54
                                                    1.00 0.10
          1.00 2.79
                   0.21
                        1.00 2.93
                                 0.07
                                      0.30 0.16
Lanes:
Final Sat.: 1700 4740
                    360 1700 4974
                                  126
                                       520 266
                                                914
                                                    1700 176
-----|----|-----|------|
Capacity Analysis Module:
          0.03 0.36
                        0.13 0.27 0.27
                                      0.09 0.09
                                               0.09
                                                    0.07 0.19
Vol/Sat:
                   0.36
                        ***
              ****
Crit Moves:
                        0.13 0.45
Green/Cycle: 0.04 0.37
                   0.37
                                0.45
                                      0.19 0.19
                                               0.19
                                                    0.19 0.19
Volume/Cap: 0.60 0.99
                   0.99 0.99 0.60
                                0.60
                                      0.44 0.44
                                               0.44
                                                    0.35 0.99
                                                             0.99
          59.7 50.2
                   50.2 101.9 21.1
                                 21.1
                                      36.5 36.5
                                               36.5
                                                    35.4 87.2
Delay/Veh:
User DelAdj: 1.00 1.00
                   1.00
                        1.00 1.00
                                 1.00
                                      1.00 1.00
                                               1.00
                                                    1.00 1.00
                                                             1.00
                   50.2 101.9 21.1
                                      36.5 36.5
                                               36.5
                                                    35.4 87.2
AdjDel/Veh: 59.7 50.2
                                 21.1
                                                             87.2
                          F
                                   С
                                                          F
               D
                     D
                              С
                                        D
                                            D
                                                 D
                                                      D
                                                               F
LOS by Move:
            Ε
                                        4
                                                      3
HCM2kAvgQ:
             2
                26
                     26
                          11
                              11
                                   11
*************
Note: Queue reported is the number of cars per lane.
******************
```

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Cumulative (2020) + ProjectWed Jan 7, 2009 09:45:16
               Huntington Beach Traffic Impact Analysis
         Cumulative (2020) + Project PM Alt 1 no cross traffic
                 Level Of Service Computation Report
         2000 HCM Operations Method (Future Volume Alternative)
*************
Intersection #7 Pacific Coast Hwy / Main St
*************************
Cycle (sec):
                100
                                Critical Vol./Cap.(X):
                31 (Y+R=4.0 sec) Average Delay (sec/veh):
Loss Time (sec):
                                                           8.9
                74
                                Level Of Service:
Optimal Cycle:
*****************************
                                               Main St
Street Name:
               Pacific Coast Hwy
                        South Bound
                                        East Bound
Approach:
           North Bound
                                                      West Bound
                      L - T - R L - T - R
           L - T - R
Movement:
                                                    L - T - R
Protected
             Protected
                          Protected
                                                      Protected
                                          Include
              Include
                            Include
                                                        Include
Rights:
                                                               0
                            0
                                   0
                                        0 0
                                                      0
                                                        0
Min. Green:
            0
              0
                     0
                          0
                                                 0
                         1 0 3 0 0 0 0 0 0
Lanes:
           1 0 3 0 1
                                                    1 0 0 0 1
-----||----||----|
Volume Module:
Base Vol:
            45 1681
                     0
                          0 1354
                                   0
                                        0
                                            0
                                                 0
                                                      0
Growth Adj: 1.00 1.00 1.00
                        1.00 1.00
                                 1.00
                                      1.00 1.00
                                               1.00
                                                   1.00 1.00
                     0
                          0 1354
                                   0
                                            0
                                                 0
                                                      0
Initial Bse:
            45 1681
                                        0
Added Vol:
            Ω
                0
                     0
                          0
                              0
                                   0
                                        0
                                            0
                                                 0
                                                               0
PasserByVol:
            0
                0
                     0
                          0
                              0
                                   0
                                        0
                                            0
                                                 0
                                                      0
                                                               0
                                   0
                                            0
            45 1681
                     0
                          0 1354
                                        0
                                                 0
                                                      0
                                                          0
                                                               0
Initial Fut:
          1.00 1.00 1.00
                        1.00 1.00
                                1.00
                                      1.00 1.00
                                              1.00
                                                   1.00 1.00
User Adj:
                                 1.00
                                               1.00
                        1.00 1.00
                                      1.00 1.00
                                                    1.00 1.00
          1.00 1.00
                   1.00
PHF Adj:
PHF Volume:
            45 1681
                     0
                          0 1354
                                 0
                                        0
                                            0
                                                 0
                                                      0
                                                          0
Reduct Vol:
            0
                 0
                     0
                          0
                              0
                                   \cap
                                        Ω
                                            Ω
                                                 Ω
                                                      Ω
                                                          U
                                                               0
            45 1681
                     0
                          0 1354
                                   0
                                        0
                                            0
                                                 0
Reduced Vol:
                        1.00 1.00
                                 1.00
                                      1.00 1.00
                                               1.00
                                                   1.00 1.00
PCE Adj:
          1.00 1.00
                   1.00
                                                            1.00
          1.00 1.00
                  1.00
                        1.00 1.00
                                1.00
                                      1.00 1.00
                                               1.00
                                                   1.00 1.00
MLF Adj:
                          0 1354
                                   0
                                        0
                                                 0
                                                      0
FinalVolume: 45 1681
                     0
                                            0
Saturation Flow Module:
          1700 1700 1700
Sat/Lane:
                        1.00 1.00 1.00 1.00 1.00
                                               1.00 1.00 1.00
Adjustment: 1.00 1.00 1.00
                                                            1.00
                                 0.00 0.00 0.00
                                               0.00
          1.00 3.00
                   1.00
                        1.00 3.00
                                                   1.00 0.00
Lanes:
                                                   1700
Final Sat.: 1700 5100 1700 1700 5100
                                 0
                                        0
                                            0
                                                 0
                                                            1700
_____| | ____| | ____| | ____| | ____| | ____| | ____| | ____| | ____| | ___|
Capacity Analysis Module:
                        0.00 0.27 0.00 0.00 0.00
                                               0.00
                                                   0.00 0.00
Vol/Sat:
          0.03 0.33
                   0.00
                        ***
              ****
Crit Moves:
                        0.00 0.63 0.00
                                     0.00 0.00
                                               0.00
                                                   0.00 0.00
Green/Cycle: 0.06 0.69 0.00
                                                            0.00
                                                            0.00
                        0.00 0.42
                                 0.00
                                      0.00 0.00
                                               0.00
                                                   0.00 0.00
Volume/Cap: 0.42 0.48
                   0.00
Delay/Veh:
          47.8
              7.3
                    0.0
                         0.0 9.5
                                 0.0
                                      0.0 0.0
                                               0.0
                                                    0.0
                        1.00 1.00
                                 1.00
                                     1.00 1.00
                                               1.00
                                                   1.00 1.00
                                                            1.00
User DelAdj: 1.00 1.00
                   1.00
                                                    0.0
AdjDel/Veh: 47.8
              7.3
                    0.0
                         0.0
                             9.5
                                 0.0
                                       0.0
                                          0.0
                                               0.0
                                                        0.0
                                                             0.0
                     Α
                                   Α
                                        Α
                                                 Α
                                                          Α
LOS by Move:
            D
                          Α
                                                      Α
                                                               Α
                              7
            2
                 8
                     0
                                  0
                                        0
                                            0
                                                 0
HCM2kAvaO:
                          0
******************
Note: Queue reported is the number of cars per lane.
*************************
```

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Cumulative (2020) + ProjectWed Jan 7, 2009 09:45:16
              Huntington Beach Traffic Impact Analysis
         Cumulative (2020) + Project PM Alt 1 no cross traffic
                             _____
                 Level Of Service Computation Report
         2000 HCM Operations Method (Future Volume Alternative)
******************
Intersection #8 Pacific Coast Hwy / 1st St
**************************
Cycle (sec):
                100
                               Critical Vol./Cap.(X):
Loss Time (sec):
               31 (Y+R=4.0 sec) Average Delay (sec/veh):
                                                       106.1
                180
                               Level Of Service:
Optimal Cycle:
***************************
              Pacific Coast Hwy
                                               1st St
Street Name:
                        South Bound
                                     East Bound
Approach:
           North Bound
                                                    West Bound
                       Movement:
          L - T - R
-----||----||-----||------|
                                      Split Phase
           Split Phase
                       Split Phase
                                                   Split Phase
                           Include
                                        Include
                                                      Include
Rights:
              Include
                                                      0
Min. Green:
            0
              0 0
                         0
                           0
                                 0
                                       0 0
                                               0
                                                    0
                                                             0
           1 0 2 1 0
Lanes:
                        1 0 2 1 0
                                     1 1 0 0 1
                                                   1 1 0 0 2
-----||----||-----||------|
Volume Module:
Base Vol:
           56 1760
                   366
                        226 1276
                                 23
                                      79
                                          45
                                               68
                                                   230
                                             1.00
                                                  1.00 1.00
                 1.00 1.00 1.00
                                1.00
                                    1.00 1.00
Growth Adj:
         1.00 1.00
                                                          1.00
                                 23
                                               68
Initial Bse:
           56 1760
                   366
                        226 1276
                                      79
                                          45
                                                   230
                                                           176
Added Vol:
            0
                0
                    0
                         0
                             0
                                  0
                                       0
                                           0
                                               0
                                                    Ω
                                                        Ω
                                                             Ω
            0
                    0
                         0
                                  0
                                       0
                                           0
                                               0
                                                    0
                                                        0
                                                             0
PasserByVol:
                0
                             0
                                 23
                                      79
                                          45
                                               68
                                                  230
Initial Fut:
           56 1760
                   366
                        226 1276
                                                       34
                                                           176
                       1.00 1.00
                  1.00
                               1.00
                                    1.00 1.00
                                            1.00
                                                  1.00 1.00
User Adj:
         1.00 1.00
          1.00 1.00
                  1.00
                       1.00 1.00
                                1.00
                                    1.00 1.00
                                             1.00
                                                  1.00 1.00
PHF Adj:
                                                          1.00
PHF Volume:
           56 1760
                   366
                        226 1276
                                 23
                                      79
                                          45
                                               68
                                                   230
                                                       34
                                                           176
Reduct Vol:
            0
                0
                   0
                             0
                                 0
                                       0
                                          0
                                               0
                                                    0
                                                        0
                         0
                        226 1276
                                 23
                                      79
                                                   230
Reduced Vol:
           56 1760
                   366
                                          45
                                               68
                                                       34
                                                           176
          1.00 1.00
                  1.00
                       1.00 1.00
                               1.00
                                    1.00 1.00
                                             1.00
                                                  1.00 1.00
                                                           1.00
PCE Adj:
                 1.00 1.00 1.00
                               1.00
                                    1.00 1.00
                                             1.00
                                                  1.00 1.00
MLF Adj:
          1.00 1.00
                                                          1.00
                        226 1276
                                 23
                                      79
                                          45
                                               68
                                                   230
FinalVolume: 56 1760
                   366
-----||-----||-----|
Saturation Flow Module:
         1700 1700 1700
                                                          1700
Sat/Lane:
Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00
                                             1.00 1.00 1.00
          1.00 2.48 0.52 1.00 2.95 0.05 1.27 0.73
                                             1.00
                                                 1.74 0.26
Lanes:
                  878 1700 5010 90 2166 1234
                                             1700 2962 438
Final Sat.: 1700 4222
                                                          3400
Capacity Analysis Module:
Vol/Sat:
          0.03 0.42 0.42 0.13 0.25
                                0.25 0.04 0.04
                                             0.04
                                                  0.08 0.08
                                ***
                                             ****
              ***
                                                  ***
Crit Moves:
Green/Cycle: 0.36 0.36 0.36
                       0.22 0.22
                                0.22 0.03 0.03
                                             0.03
                                                  0.07 0.07
                                                          0.07
Volume/Cap: 0.09 1.14
                  1.14
                       0.60 1.14
                                1.14 1.04 1.04
                                             1.14
                                                  1.14 1.14
                                                          0.76
          20.9 103 103.4
                       37.4 114 114.4 142.7
                                        143 209.6 150.1
Delay/Veh:
                               1.00 1.00 1.00
User DelAdj: 1.00 1.00
                 1.00
                       1.00 1.00
                                             1.00
                                                 1.00 1.00
AdjDel/Veh: 20.9 103 103.4
                       37.4
                           114 114.4 142.7
                                         143 209.6 150.1
                                                      150
               F
                    F
                                 F
                                       F
                                           F
                                               F
                                                    F
                                                        F
LOS by Move:
           С
                         D
                             F
                                                             Ε
                    36
                         7
                            24
                                 24
                                       5
                                           5
            1
               36
******************************
Note: Queue reported is the number of cars per lane.
*******************
```

```
Cumulative (2020) + ProjectWed Jan 7, 2009 09:45:17
                                                    Page 7-1
              Huntington Beach Traffic Impact Analysis
         Cumulative (2020) + Project PM Alt 1 no cross traffic
       Level Of Service Computation Report
         2000 HCM Operations Method (Future Volume Alternative)
**************
Intersection #9 Pacific Coast Hwy / Huntington St
******************
                              Critical Vol./Cap.(X):
                100
Cycle (sec):
               5 (Y+R=4.0 sec) Average Delay (sec/veh):
                                                      10.0
Loss Time (sec):
               39
                             Level Of Service:
Optimal Cycle:
*************
              Pacific Coast Hwy
                                          Huntington St
Street Name:
                      South Bound
Approach:
           North Bound
                                    East Bound
                                                  West Bound
         L-T-R L-T-R L-T-R
Movement:
Protected
Control:
                         Protected
                                      Permitted
                                                   Permitted
                          Include
                                                    Include
Rights:
             Include
                                       Include
                         0 0
              0
                   0
                                0
                                      0 0
                                              0
                                                           0
            0
Min. Green:
          1 0 2 0 1 1 0 2 0 1 0 1 0 1 0
                                                 1 1 0 0 1
Lanes:
_____|
Volume Module:
           45 1949
                   213
                        56 1436
                                11
                                     45
                                         56
                                             90
                                                 156
                                                      34
Base Vol:
                      1.00 1.00
                               1.00
                                            1.00
                                                1.00 1.00
Growth Adj: 1.00 1.00
                  1.00
                                   1.00 1.00
                                                         1.00
           45 1949
                   213
                        56 1436
                                11
                                     45
                                         56
                                             90
                                                 156
                                                      34
                                                          34
Initial Bse:
                                                   0
                                 0
                                     0
                                         0
                                              0
                                                       0
                                                           0
Added Vol:
           0
              0
                   0
                        0
                          0
                   0
                                 0
                                     0
                                         0
                                              0
                                                   0
                                                      0
                                                           0
PasserByVol:
           0
                0
                         0
                            0
                                             90
Initial Fut: 45 1949
                  213
                        56 1436
                                11
                                     45
                                         56
                                                 156
                                                      34
                                                          34
         1.00 1.00 1.00
                      1.00 1.00
                              1.00
                                   1.00 1.00
                                           1.00
                                                1.00 1.00
                                                         1.00
User Adj:
                                                1.00 1.00
          1.00 1.00
                 1.00
                       1.00 1.00
                              1.00
                                   1.00 1.00
                                            1.00
PHF Adj:
                                     45
                                         56
                                             90
                                                 156
                                                      34
PHF Volume:
           45 1949
                   213
                        56 1436
                                11
                                                          34
           0
                   0
                         0
                                 0
                                     0
                                         0
                                              0
                                                   0
                                                       0
                                                           0
Reduct Vol:
               0
                           0
                                     45
                                         56
                                             90
Reduced Vol:
           45 1949
                   213
                        56 1436
                                11
                                                 156
                                                      34
                                                           34
PCE Adj:
          1.00 1.00
                  1.00
                      1.00 1.00
                               1.00
                                   1.00 1.00
                                            1.00
                                                1.00 1.00
                  1.00
                      1.00 1.00 1.00 1.00 1.00
                                            1.00
                                                1.00 1.00
                                                         1.00
MLF Adj:
          1.00 1.00
FinalVolume: 45 1949
                   213
                        56 1436
                               11
                                     45
                                       56
                                             90
                                                 156
-----||-----||-----|
Saturation Flow Module:
Sat/Lane:
         1700 1700
                  1700 1700 1700
                               1700 1700 1700
                                            1700 1700 1700
         1.00 1.00
                  1.00 1.00 1.00
                               1.00
                                   1.00 1.00
                                            1.00 1.00 1.00
                                                         1.00
Adjustment:
          1.00 2.00
                  1.00 1.00 2.00
                              1.00 0.47 0.59
                                            0.94
                                                1.64 0.36
                                                         1.00
Lanes:
Final Sat.: 1700 3400
                  1700 1700 3400 1700
                                    801 997
                                            1602 2792 608
-----||-----||-----|
Capacity Analysis Module:
                                   0.06 0.06
Vol/Sat:
          0.03 0.57
                      0.03 0.42 0.01
                                            0.06 0.06 0.06 0.02
Crit Moves:
             ****
                       ****
                                       ****
                      0.05 0.82 0.82
                                            0.08
                                                0.08 0.08
Green/Cycle: 0.05 0.82
                 0.82
                                    0.08 0.08
                                                         0.08
                       0.70 0.52
                               0.01
                                    0.70 0.70
                                            0.70
                                                0.69 0.69
Volume/Cap: 0.52 0.70
                  0.15
                                                         44.1
                               1.7
                                   52.5 52.5
                                            52.5
                                                52.2 52.2
                  1.9
                       70.5 3.0
Delay/Veh:
          51.5
              4.5
                      1.00 1.00 1.00
                                   1.00 1.00
                                            1.00
                                                1.00 1.00
User DelAdj: 1.00 1.00
                  1.00
AdjDel/Veh: 51.5 4.5
                   1.9
                       70.5
                          3.0
                               1.7
                                    52.5 52.5
                                            52.5
                                                52.2 52.2
                                                        44.1
LOS by Move: D
               Α
                    Α
                         Ε
                            Α
                                 Α
                                      D
                                          D
                                              D
                                                   D
                                                      D
                                                           D
                         3
                            7
               13
                    1
                                 0
                                      4
                                          4
                                              4
  Note: Queue reported is the number of cars per lane.
****************************
```

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Cumulative (2020) + ProjectWed Jan 7, 2009 09:45:17
                                                      Page 8-1
               Huntington Beach Traffic Impact Analysis
         Cumulative (2020) + Project PM Alt 1 no cross traffic
                 Level Of Service Computation Report
         2000 HCM Operations Method (Future Volume Alternative)
***********************************
Intersection #16 Main St / Adams Ave
*************************************
Cycle (sec):
                100
                               Critical Vol./Cap.(X):
               5 (Y+R=4.0 sec) Average Delay (sec/veh):
Loss Time (sec):
                                                        21.4
                43
                               Level Of Service:
Optimal Cycle:
*******************************
                   Main St
Street Name:
                                             Adams Ave
                       South Bound
Approach:
          North Bound
                                     East Bound
                                                   West Bound
                      L - T - R L - T - R
Movement:
          L - T - R
                                                  L - T - R
-----|
                         Permitted
             Permitted
                                      Permitted
                                                    Permitted
                          Include
                                       Include
Rights:
             Include
                                                      Include
Min. Green:
            0 0 0
                         0 0 0
                                      0 0
                                               0
                                                      0
           1 0 1 0 1 1 0 1 0 1 0 0 1
                                                   0 1 0 0 1
Volume Module:
           11 582
Base Vol:
                   129
                        82 641
                                       0 180
                                 11
                                               11
                                                   231 316
                                                            68
                               1.00
                                             1.00
                                                  1.00 1.00
Growth Adj: 1.00 1.00
                  1.00
                       1.00 1.00
                                    1.00 1.00
                                                          1.00
                   129
Initial Bse: 11 582
                         82
                            641
                                 11
                                       0
                                         180
                                               11
                                                   231
                                                       316
Added Vol:
            0
                0
                    0
                         0
                             0
                                  0
                                       0
                                           0
                                                0
                                                    Ω
                                                        0
                                                             0
PasserByVol:
            0
                0
                    0
                         0
                             0
                                  0
                                           0
                                               0
                                       0
                                                    0
                                                        0
                                                             0
           11 582
                   129
Initial Fut:
                         82
                            641
                                       0
                                        180
                                 11
                                               11
                                                   231
                                                      316
          1.00 1.00
                  1.00
User Adj:
                       1.00 1.00
                               1.00
                                    1.00 1.00
                                            1.00
                                                  1.00 1.00
          1.00 1.00
                       1.00 1.00
PHF Adj:
                  1.00
                                1.00
                                     1.00 1.00
                                             1.00
                                                  1.00 1.00
                                                          1.00
PHF Volume:
           11 582
                   129
                         82
                            641
                                 11
                                       0
                                         180
                                               11
                                                   231
                                                       316
                                                            68
Reduct Vol:
            0
                     0
                         0
                             0
                                  0
                                       0
                                           0
                                               0
                0
                                                    0
                                                        0
                                                             0
Reduced Vol:
           11
              582
                   129
                         82
                            641
                                 11
                                        180
                                               11
                                                   231
                                                      316
                                       0
                                                            68
          1.00 1.00
                  1.00
                       1.00 1.00
PCE Adj:
                                1.00
                                    1.00 1.00
                                             1.00
                                                  1.00 1.00
                                                          1.00
                 1.00
MLF Adj:
          1.00 1.00
                       1.00 1.00
                               1.00
                                    1.00 1.00
                                             1.00
                                                  1.00 1.00
                                                          1.00
                   129
FinalVolume: 11 582
                         82 641
                                 11
                                       0 180
                                               11
                                                   231
-----||-----||------||------|
Saturation Flow Module:
Sat/Lane:
          1700 1700 1700
                                                          1700
                  1.00 1.00 1.00 1.00 1.00 1.00
Adjustment: 1.00 1.00
                                             1.00 1.00 1.00
          1.00 1.00 1.00 1.00 1.00 1.00 0.00 1.00
                                             1.00 0.42 0.58
                                                         1.00
Final Sat.: 1700 1700 1700 1700 1700 1700
                                             1700
                                    0 1700
                                                  718 982
                                                          1700
Capacity Analysis Module:
                       0.05 0.38
Vol/Sat:
          0.01 0.34 0.08
                                0.01 0.00 0.11 0.01
                                                  0.32 0.32
                                                          0.04
                           ***
Crit Moves:
Green/Cycle: 0.51 0.51 0.51 0.51 0.51
                                    0.00 0.44
                                             0.44
                                                  0.44 \ 0.44
                                                          0.44
Volume/Cap: 0.01 0.67
                  0.15
                       0.09 0.74
                               0.01
                                    0.00 0.24
                                             0.01
                                                  0.74 0.74
          12.0 20.1
                  12.9
                       12.5 22.4
                               12.0
                                     0.0 17.9
Delay/Veh:
                                             15.9
                                                  27.2 27.2
                       1.00 1.00
User DelAdj: 1.00 1.00
                  1.00
                               1.00 1.00 1.00
                                             1.00
                                                  1.00 1.00
AdjDel/Veh: 12.0 20.1
                  12.9
                       12.5 22.4
                               12.0
                                     0.0 17.9
                                             15.9
                                                  27.2 27.2
                                                          16.5
                     В
LOS by Move: B
               С
                         В
                            С
                                  В
                                       Α
                                           В
                                               В
                                                    С
                                                        C
                                                             В
                     2
                            16
HCM2kAvqQ:
            0
               14
                         1
                               0
                                       0
                                           3
                                               0
                                                   15
********************************
Note: Queue reported is the number of cars per lane.
********************************
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Cumulative (2020) + ProjectWed Jan 7, 2009 09:45:17 Page 9-1
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          Huntington Beach Traffic Impact Analysis
      Cumulative (2020) + Project PM Alt 1 no cross traffic
            Level Of Service Computation Report
      2000 HCM 4-Way Stop Method (Future Volume Alternative)
*****************
Intersection #17 Main St / Walnut Ave
*************************
Cycle (sec):
           100
                      Critical Vol./Cap.(X):
Loss Time (sec): 0 (Y+R=4.0 sec) Average Delay (sec/veh): Optimal Cycle: 0 Level Of Service:
                                         0.0
*********************
        Main St
Street Name:
                                Walnut Ave
Approach: North Bound South Bound East Bound West Bound Movement: L - T - R L - T - R
-----|
        Stop SignStop SignStop SignStop SignIncludeIncludeIncludeInclude000000
                                    Include
Rights:
                                           0
Min. Green:
Lanes: 0 0 1! 0 0 0 0 1! 0 0 0 0 1! 0 0 0 0 1! 0 0
Volume Module:
     0 0 0
                0 0 0
                          0 0
                                0
                                     0
Base Vol:
Initial Bse: 0 0 0
                0 0 0
                                0
                          0 0
Added Vol:
        0
           0
              0
                  0
                     0
                        0
                            0
                              0
                                  0
                                            Ω
        0
           0
              0
                  0
                     0
                        0
                            0
                              0
                                  0
                                     0
PasserByVol:
           0
              0
                     0
                            0
                              0
                                  0
                                     0
        0
                  0
                        0
Initial Fut:
User Adj: 0.00 0.00 0.00
                0.00 0.00 0.00 0.00 0.00 0.00
                                   0.00 0.00
PHF Adj:
       0.00 0.00 0.00
                          0.00 0.00 0.00
                0.00 0.00 0.00
                                    0.00 0.00
PHF Volume: 0 0
             0
                 0 0
                       0
                           0 0
                                0
                                     0
        0 0
              0
                  0
                     0
                        0
                            0
                             0
                                 0
Reduct Vol:
                       0
                             0
Reduced Vol:
        0
          0
              0
                 0 0
                            0
       0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
PCE Adj:
0 0
                                0
            0
                0 0
                      0
                                     0 0
FinalVolume: 0 0
-----|----|-----|------|-------|
Saturation Flow Module:
Final Sat.: 0 0 0 0 0 0 0 0 0 0 0
----|
Capacity Analysis Module:
Crit Moves:
                                 0.0
              0.0
                0.0 0.0
                       0.0
                           0.0 0.0
                                    0.0 0.0
Delay/Veh:
       0.0 0.0
                                          0.0
       1.00
                                    1.00 1.00
Delay Adj:
                                          1.00
AdjDel/Veh: 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
                                0.0 0.0 0.0
LOS by Move:
                             0.0
                                       0.0
ApproachDel:
          0.0
                    0.0
                   0.00
                             0.00
                                       0.00
          0.00
Delay Adj:
          0.0
                    0.0
                             0.0
ApprAdjDel:
LOS by Appr:
Note: Queue reported is the number of cars per lane.
```

Cumulative (2020) + ProjectWed Jan 7, 2009 09:45:17 Page 10-1 _____ Huntington Beach Traffic Impact Analysis Cumulative (2020) + Project PM Alt 1 no cross traffic Level Of Service Computation Report 2000 HCM 4-Way Stop Method (Future Volume Alternative) **************** Intersection #18 Main St / Olive Ave ************************ Critical Vol./Cap.(X): Cycle (sec): 100 Loss Time (sec): 0 (Y+R=4.0 sec) Average Delay (sec/veh):
Optimal Cycle: 0 Level Of Service: 0.0 ************************* Main St Olive Ave Street Name: North Bound South Bound East Bound West Bound L - T - R L - T - R Approach: Movement: Stop SignStop SignStop SignStop SignIncludeIncludeIncludeInclude000000 Rights: 0 0 0 Min. Green: Lanes: 0 0 1! 0 0 0 0 1! 0 0 0 0 1! 0 0 0 1! 0 0 Volume Module: 0 0 0 0 0 0 0 0 0 Base Vol: Initial Bse: 0 0 0 0 0 0 0 0 0 0 Added Vol: 0 PasserByVol: 0 0 0 0 0 0 0 Ω 0 0 Initial Fut: 0 User Adj: 0.00 PHF Adj: PHF Volume: 0 0 0 0 0 0 0 0 0 0 0 0 0 Reduct Vol: 0 0 0 0 0 0 0 Ω Ω n 0 0 0 0 0 0 0 0 Reduced Vol: 0 $0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00$ PCE Adj: 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 MLF Adj: 0 0 0 0 0 0 0 FinalVolume: 0 0 0 _____| Saturation Flow Module: $0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00$ Lanes: Final Sat.: 0 0 0 0 0 0 0 0 0 0 -----||-----||-----||------| Capacity Analysis Module: Crit Moves: 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Delay/Veh: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 Delay Adj: 1.00 0.0 0.0 0.0 0.0 0.0 0.0 AdjDel/Veh: 0.0 0.0 0.0 0.0 0.0 0.0 LOS by Move: 0.0 0.0 0.0 ApproachDel: 0.0 0.00 0.00 0.00 0.00 Delay Adj: ApprAdjDe1: 0.0 0.0 0.0 0.0 LOS by Appr: ******************* Note: Queue reported is the number of cars per lane.

Cumulative (2020) + ProjectWed Jan 7, 2009 09:45:17 Page 11-1 Huntington Beach Traffic Impact Analysis Cumulative (2020) + Project PM Alt 1 no cross traffic Level Of Service Computation Report 2000 HCM Operations Method (Future Volume Alternative) ************ Intersection #19 Main St / 6th St ************************* 100 Critical Vol./Cap.(X): Cycle (sec): 5 (Y+R=4.0 sec) Average Delay (sec/veh): 21 Level Of Service: 16.1 Loss Time (sec): Level Of Service: Optimal Cycle: ***************** Main St 6th St Street Name: South Bound East Bound North Bound West Bound Approach: $L - T - R \qquad L - T - R$ L - T - R L - T - R Movement: Permitted Permitted Permitted Permitted Control: Include Include Include Include Rights: 0 0 0 0 0 0 0 0 0 Min. Green: 0 0 0 1 0 0 1 0 1 0 0 1 0 1 0 1 0 1 1 0 1 0 1 Volume Module: 15 186 14 43 179 224 251 99 31 30 92 43 Base Vol: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 Growth Adj: 1.00 1.00 1.00 43 179 224 251 99 30 92 43 Initial Bse: 15 186 14 31 Added Vol: 0 0 0 0 n 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 PasserByVol: 99 92 43 179 224 251 31 30 43 15 186 14 Initial Fut: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 PHF Adj: 1.00 1.00 PHF Volume: 15 186 14 43 179 224 251 99 31 30 92 43 0 0 0 0 0 0 0 0 Ω Ω Λ Reduct Vol: 0 43 179 224 251 99 31 30 43 Reduced Vol: 15 186 14 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 MLF Adj: 224 99 43 179 251 31 30 FinalVolume: 15 186 14 -----||-----||-----||-----| Saturation Flow Module: 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 Sat/Lane: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 Adjustment: 1.00 1.00 1.00 0.93 0.07 1.00 0.44 0.56 1.00 1.00 1.00 1.00 1.00 1.00 Lanes: Final Sat.: 1700 1581 119 1700 755 945 1700 1700 1700 1700 1700 1700 Capacity Analysis Module: Vol/Sat: 0.15 0.06 0.02 0.02 0.05 0.03 0.01 0.12 0.12 0.03 0.24 **** *** Crit Moves: 0.59 0.59 0.59 0.59 0.36 0.36 0.36 0.36 0.36 Green/Cycle: 0.59 0.59 0.36 0.05 0.15 0.05 Volume/Cap: 0.02 0.20 0.20 0.04 0.40 0.40 0.40 0.16 0.07 8.7 9.8 8.8 11.5 11.5 24.1 21.6 20.6 20.6 21.5 Delay/Veh: 9.8 1.00 1.00 1.00 1.00 1.00 User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 AdjDe1/Veh: 8.7 9.8 9.8 8.8 11.5 11.5 24.1 21.6 20.6 20.6 21.5 С С С С С В C Α Α Α В LOS by Move: Α 7 7 2 6 1 1 HCM2kAvqQ: 0 3 3 1 ****************** Note: Queue reported is the number of cars per lane. **************************

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Cumulative (2020) + ProjectWed Jan 7, 2009 09:45:17
                                                        Page 12-1
______
               Huntington Beach Traffic Impact Analysis
          Cumulative (2020) + Project PM Alt 1 no cross traffic
                  Level Of Service Computation Report
          2000 HCM 4-Way Stop Method (Future Volume Alternative)
******************************
Intersection #20 Lake St / 6th St
**************************
                 100
                                 Critical Vol./Cap.(X):
Cycle (sec):
                0 (Y+R=4.0 sec) Average Delay (sec/veh):
Loss Time (sec):
                                                           10.9
Optimal Cycle:
                  0
                                 Level Of Service:
*****************************
Street Name:
                    Lake St
                                                  6th St
                         South Bound
                                        East Bound
Approach:
            North Bound
                                                       West Bound
                         L - T - R
                                       L - T - R
           L - T - R
                                                      L - T - R
Movement:
Control:
             Stop Sign
                           Stop Sign
                                        Stop Sign
                                                       Stop Sign
Rights:
              Include
                             Include
                                           Include
                                                         Include
             0
               0
                      0
                             0
                                   0
                                         0 0
                                                          0
Min. Green:
                           0
                                                  0
                                                       0
           1 0 0 1 0
                         1 0 1 0 1
                                        0 1 0 0 1
                                                      0 1 0 0 1
        --|-----||-----||------||------|
Volume Module:
Base Vol:
            19 241
                     35
                          34 200
                                   71
                                        41
                                             58
                                                  40
                                                       11
                                                           79
                                                                23
Growth Adj:
          1.00 1.00
                   1.00
                         1.00 1.00
                                  1.00
                                       1.00 1.00
                                                1.00
                                                     1.00 1.00
                     35
                              200
                                   71
                                                           79
                                                                23
Initial Bse:
            19
               241
                          34
                                        41
                                             58
                                                  40
                                                       11
             0
                 0
                      0
                                    0
                                         0
                                                       0
Added Vol:
                           0
                               0
                                             0
                                                  0
                                                            0
                                                                 0
                      0
             0
                 0
                           0
                               0
                                    0
                                         0
                                             0
                                                  0
                                                       0
                                                            0
                                                                 0
PasserByVol:
            19 241
                                   71
Initial Fut:
                     35
                          34
                              200
                                        41
                                             58
                                                  40
                                                       11
                                                           79
                                                                23
User Adj:
          1.00 1.00
                   1.00
                         1.00 1.00
                                 1.00
                                       1.00 1.00
                                                1.00
                                                     1.00 1.00
PHF Adj:
          1.00 1.00
                    1.00
                         1.00 1.00
                                  1.00
                                       1.00 1.00
                                                1.00
                                                     1.00 1.00
                                                              1.00
                                                       11
            19
               241
                     35
                          34
                              200
                                   71
                                         41
                                             58
                                                  40
                                                           79
                                                                23
PHF Volume:
Reduct Vol:
             0
                      0
                           0
                                    0
                                         0
                                             0
                                                  0
                                                       0
                                                           0
                                                                 0
                 0
                               0
                                   71
Reduced Vol:
               241
                          34
                             200
                                             58
                                                                23
            19
                     35
                                         41
                                                  40
                                                       11
                                                           79
PCE Adj:
          1.00 1.00
                   1.00
                         1.00 1.00
                                 1.00
                                       1.00 1.00
                                                1.00
                                                     1.00 1.00
                                                             1.00
                   1.00
                         1.00 1.00
                                  1.00
                                       1.00 1.00
                                                1.00
                                                     1.00 1.00
MLF Adj:
          1.00 1.00
            19 241
                     35
                          34 200
                                   71
                                        41
                                             58
                                                  40
                                                       11
FinalVolume:
                                                                23
Saturation Flow Module:
Adjustment: 1.00 1.00 1.00
                        1.00 1.00
                                  1.00 1.00 1.00
                                                1.00 1.00 1.00
                                                              1.00
Lanes:
          1.00 0.87 0.13 1.00 1.00
                                 1.00 0.41 0.59
                                                1.00 0.12 0.88
                                                              1.00
          567 550
                   80
                                 651
Final Sat.:
                         534 582
                                        218 308
                                                 604
                                                       65
                                                               595
Capacity Analysis Module:
                         0.06 0.34
          0.03 0.44 0.44
                                       0.19 0.19
                                                0.07
                                                     0.17 0.17
Vol/Sat:
                                  0.11
                                                              0.04
              ****
                             ***
                                           ***
                                                         ****
Crit Moves:
Delay/Veh:
           9.0 12.2 12.2
                         9.6 11.6
                                 8.6
                                       10.5 10.5
                                                 8.6
                                                     10.2 10.2
                                                               8.5
                                  1.00
Delay Adj:
          1.00 1.00
                   1.00
                         1.00 1.00
                                       1.00 1.00
                                                1.00
                                                     1.00 1.00
AdjDel/Veh:
           9.0 12.2
                    12.2
                         9.6 11.6
                                   8.6
                                       10.5 10.5
                                                 8.6
                                                     10.2 10.2
                                                               8.5
LOS by Move:
                      В
                                    Α
                                         В
                                                  Α
             Α
                 В
                           Α
                               В
                                             В
                                                           В
                                            9.9
                                                          9.8
                             10.7
ApproachDel:
               12.0
Delay Adj:
               1.00
                             1.00
                                           1.00
                                                         1.00
                             10.7
                                            9.9
                                                          9.8
ApprAdjDel:
               12.0
LOS by Appr:
                 В
                               В
                                             Α
                                                           Α
           0.0 0.7
                    0.7
                         0.1 0.5
                                        0.2 0.2
                                                      0.2
                                                         0.2
AllWayAvgQ:
                                  0.1
                                                 0.1
****************************
Note: Queue reported is the number of cars per lane.
```

```
Cumulative (2020) + ProjectWed Jan 7, 2009 09:45:17
                                                      Page 13-1
------
               Huntington Beach Traffic Impact Analysis
         Cumulative (2020) + Project PM Alt 1 no cross traffic
         ______
                 Level Of Service Computation Report
         2000 HCM 4-Way Stop Method (Future Volume Alternative)
Intersection #21 Lake St / Orange Ave
*******************************
                100
                                Critical Vol./Cap.(X):
Cycle (sec):
              0 (Y+R=4.0 sec) Average Delay (sec/veh):
Loss Time (sec):
                                                         74.8
                 0
Optimal Cycle:
                                Level Of Service:
*****************************
                  Lake St
Street Name:
                                              Orange Ave
Approach:
           North Bound
                        South Bound
                                      East Bound
                                                     West Bound
                       L - T - R \quad L - T - R
Movement:
           L - T - R
                                                    L - T - R
Stop Sign
                          Stop Sign
                                        Stop Sign
                                                     Stop Sign
Control:
Rights:
              Include
                            Include
                                         Include
                                                       Include
Min. Green:
            0
              0
                    0
                          0
                            0
                                  0
                                        Ω
                                         0
                                                Ω
                                                     0
                                                        0
                                                              0
                        0 0 1! 0 0
           0 0 1! 0 0
                                      0 0 1! 0 0
Volume Module:
                        105
                             99
                                  75
                                       58 343
Base Vol:
           114 124
                    25
                                               122
                                                     34 413
                                                             122
Growth Adj:
          1.00 1.00
                  1.00
                        1.00 1.00
                                1.00
                                     1.00 1.00
                                              1.00
                                                   1.00 1.00
Initial Bse:
           114
              124
                    25
                        105
                             99
                                  75
                                       58
                                          343
                                               122
                                                     34
                                                        413
                                                             122
                     0
                                   0
Added Vol:
            0
                0
                          0
                              0
                                        0
                                            0
                                                 0
                                                     0
                                                              0
                     0
                          0
                                   0
                                                0
            0
                0
                              0
                                        0
                                            0
                                                     0
                                                         0
                                                              0
PasserByVol:
Initial Fut: 114 124
                    25
                        105
                             99
                                  75
                                       58 343
                                               122
                                                     34
                                                       413
          1.00 1.00
User Adj:
                   1.00
                        1.00 1.00
                                1.00
                                     1.00 1.00
                                              1.00
                                                   1.00 1.00
                                                            1.00
PHF Adj:
          1.00 1.00
                   1.00
                        1.00 1.00
                                 1.00
                                     1.00 1.00
                                              1.00
                                                   1.00 1.00
                                                            1.00
           114 124
                    25
                        105
                             99
                                  75
                                       58
                                          343
                                               122
                                                     34
                                                             122
PHF Volume:
                                                        413
            0
                     0
                          0
                                  0
                                        0
Reduct Vol:
                              0
                                            0
                                                0
                                                     0
                                                              0
                                  75
Reduced Vol:
              124
                    25
                             99
                                         343
                                                     34
          114
                        105
                                       58
                                               122
                                                       413
                                                             122
          1.00 1.00
                  1.00
                        1.00 1.00
                                1.00
                                     1.00 1.00
                                              1.00
PCE Adj:
                                                   1.00 1.00
                                                            1.00
MLF Adj:
          1.00 1.00
                  1.00
                        1.00 1.00
                                 1.00
                                     1.00 1.00
                                              1.00
                                                   1.00 1.00
                                                            1.00
FinalVolume: 114 124
                    25
                        105
                             99
                                  75
                                       58 343
                                               122
                                                     34 413
Saturation Flow Module:
Adjustment: 1.00 1.00 1.00 1.00 1.00
                               1.00 1.00 1.00 1.00 1.00 1.00
                                                            1.00
                                0.27 0.11 0.66
          0.43 0.47 0.10 0.38 0.35
                                              0.23 0.06 0.73
Lanes:
          184 200
                  40
                        163 154
                                117
                                      55 324
                                              115
                                                     30 358
                                                             106
Final Sat.:
-----||-----||------|
Capacity Analysis Module:
Vol/Sat:
          0.62 0.62 0.62
                      0.64 0.64
                                 0.64
                                     1.06 1.06 1.06 1.15 1.15
                                 ***
                                         ****
Crit Moves:
          ***
          23.4 23.4 23.4
                                     84.0 84.0
Delay/Veh:
                       24.1 24.1
                                 24.1
                                              84.0 115.0 115 115.0
          1.00 1.00
                  1.00
                       1.00 1.00
                                 1.00 1.00 1.00
                                              1.00 1.00 1.00
Delay Adj:
                   23.4
                                 24.1 84.0 84.0
AdjDel/Veh:
          23.4 23.4
                        24.1 24.1
                                              84.0 115.0
                                                        115 115.0
            С
                С
                     С
                            С
                                   C
                                        F
                                                 F
LOS by Move:
                          C
                                            F
                                                     \mathbf{F}
ApproachDel:
              23.4
                            24.1
                                         84.0
                                                      115.0
Delay Adj:
              1.00
                            1.00
                                         1.00
                                                       1.00
                                                      115.0
ApprAdjDel:
              23.4
                            24.1
                                         84.0
LOS by Appr:
                              C
           1.4 1.4
AllWayAvgQ:
                   1.4
                        1.6 1.6 1.6 10.1 10.1 10.1 14.4 14.4 14.4
******************************
Note: Queue reported is the number of cars per lane.
```

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Cumulative (2020) + ProjectWed Jan 7, 2009 09:45:17
                                                   Page 14-1
             _____
              Huntington Beach Traffic Impact Analysis
         Cumulative (2020) + Project PM Alt 1 no cross traffic
                Level Of Service Computation Report
         2000 HCM Operations Method (Future Volume Alternative)
**********************************
Intersection #22 1st St / Orange Ave & Atlanta Ave
********************************
Cycle (sec):
               100
                              Critical Vol./Cap.(X):
               5 (Y+R=4.0 sec) Average Delay (sec/veh):
Loss Time (sec):
                                                      23.2
                23
                              Level Of Service:
Optimal Cycle:
*************************
Street Name:
                   1st St
                                      Orange Ave & Atlanta Ave
          North Bound
                       South Bound
                                     East Bound
                                                  West Bound
Approach:
                      L - T - R \qquad L - T - R
          L - T - R
                                                L - T - R
Movement:
Permitted
                                     Protected
Control:
            Permitted
                                                  Protected
Rights:
             Include
                         Include
                                       Include
                                                    Include
Min. Green:
          0 0 0
                         0 0 0
                                     0 0 0
                                                    0
                                                           0
          0 1 0 0 1
                       1 0 0 0 0
                                    1 0 1 1 0
                                                 1 0 0 1 0
Volume Module:
         158
                            0
                                     0 316
                                            204
Base Vol:
               11
                  261
                        11
                                 0
                                                 225 323
Growth Adj: 1.00 1.00 1.00 1.00 1.00
                               1.00
                                   1.00 1.00
                                            1.00
                                                1.00 1.00
                                                        1.00
Initial Bse: 158
               11
                   261
                        11
                            0
                                 0
                                     0
                                        316
                                            204
                                                 225
                                                     323
Added Vol:
           0
               0
                    0
                         0
                            0
                                 0
                                     0
                                         0
                                              0
                                                  0
                                                      0
                                                           0
                    0
                         0
                                 0
                                              0
PasserByVol:
           0
               0
                            0
                                      0
                                         0
                                                  0
                                                      0
                                                           0
                                 0
                                            204
Initial Fut: 158
               11
                  261
                        11
                            0
                                      0
                                       316
                                                 225
                                                    323
User Adj:
         1.00 1.00 1.00
                      1.00 1.00
                               1.00
                                   1.00 1.00
                                            1.00
                                                1.00 1.00
         1.00 1.00
                                   1.00 1.00
PHF Adj:
                  1.00
                      1.00 1.00
                               1.00
                                            1.00
                                                1.00 1.00
                                                         1.00
PHF Volume:
          158
               11
                   261
                        11
                            0
                                 0
                                     0
                                       316
                                            204
                                                 225
                                                     323
                                                          11
               0
                         0
                                 0
                                              0
Reduct Vol:
            0
                   0
                            0
                                      0
                                         0
                                                  0
                                                      0
                                                           0
                        11
Reduced Vol: 158
               11
                   261
                                 0
                                       316
                                            204
                                                 225
                                                     323
                            0
                                      0
                                                          11
                                   1.00 1.00
PCE Adj:
         1.00 1.00
                  1.00
                      1.00 1.00
                               1.00
                                            1.00
                                                1.00 1.00
                                                        1.00
MLF Adj:
         1.00 1.00 1.00 1.00 1.00
                               1.00 1.00 1.00 1.00
                                                1.00 1.00
                                                        1.00
FinalVolume: 158
               11
                  261
                        11
                            0
                                 0
                                     0 316
                                            204
                                                 225
Saturation Flow Module:
         Sat/Lane:
Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00
                                            1.00
                                                1.00 1.00
         0.93 0.07 1.00 1.00 0.00 0.00 1.00 1.22
                                            0.78
                                                1.00 0.97 0.03
Lanes:
Final Sat.: 1589 111 1700 1700 0
                              0 1700 2066 1334
                                                1700 1644
Capacity Analysis Module:
Vol/Sat:
         0.10 0.10 0.15 0.01 0.00 0.00
                                   0.00 0.15
                                            0.15
                                                0.13 0.20 0.20
                                                ****
                  ****
                                       ****
Crit Moves:
Green/Cycle: 0.33 0.33 0.33
                      0.33 0.00 0.00
                                   0.00 0.33
                                            0.33
                                                0.29 0.62
                                                        0.62
Volume/Cap: 0.30 0.30
                 0.46
                      0.02 0.00
                              0.00
                                   0.00 0.46
                                            0.46
                                                0.46 0.32
                      22.4 0.0
                               0.0
Delay/Veh:
         25.0 25.0
                  26.9
                                    0.0 26.7
                                            26.7
                                                30.0 9.3
User DelAdj: 1.00 1.00 1.00
                      1.00 1.00
                              1.00 1.00 1.00
                                           1.00
                                                1.00 1.00
AdjDel/Veh: 25.0 25.0
                  26.9
                      22.4 0.0
                               0.0
                                   0.0 26.7
                                            26.7
                                                30.0
                                                    9.3
                    C
          С
               С
                         С
                                 Α
                                     Α
                                         C
                                             С
                                                  С
LOS by Move:
                            Α
                                                      Α
                    7
HCM2kAvqQ:
                         0
                           0
                               0
                                     0
*********************************
Note: Queue reported is the number of cars per lane.
*******************************
```

```
Cumulative (2020) + ProjectWed Jan 7, 2009 09:45:17
                                                      Page 15-1
______
               Huntington Beach Traffic Impact Analysis
         Cumulative (2020) + Project PM Alt 1 no cross traffic
                 Level Of Service Computation Report
         2000 HCM Operations Method (Future Volume Alternative)
Intersection #24 Beach Blvd / Pacific View Ave
***********************************
                100
Cycle (sec):
                                Critical Vol./Cap.(X):
              5 (Y+R=4.0 sec) Average Delay (sec/veh):
Loss Time (sec):
                                                          12.2
                 20
Optimal Cvcle:
                                Level Of Service:
************************************
             Beach Blvd
Street Name:
                                            Pacific View Ave
                        South Bound
                                       East Bound
Approach:
           North Bound
                                                     West Bound
                        L - T - R L - T - R
Movement:
           L - T - R
                                                   L - T - R
Protected
                                       Protected
Control:
            Protected
                                                     Protected
Rights:
              Include
                            Include
                                          Include
                                                       Include
Min. Green:
            0
              0 0
                          0
                            0 0
                                        0
                                          0
                                                Ω
                                                      0
                                                        0
                                                              0
           1 0 3 0 0
                         1 0 2 1 0
                                      1 0 0 0 1
                                                    0 0 0 0 0
 ---------|-----|-----||-------||------||-----||------|
Volume Module:
Base Vol:
            45 1201
                    0
                                 161
                                      190
                          0 675
                                            0
                                                45
                                                      0
                                                          0
Growth Adj: 1.00 1.00 1.00
                        1.00 1.00
                                 1.00
                                     1.00 1.00
                                              1.00
                                                   1.00 1.00
Initial Bse:
            45 1201
                     0
                          0
                            675
                                 161
                                      190
                                            0
                                                45
                                                      Ω
                                                               0
                     0
Added Vol:
            0
                0
                          0
                              0
                                   0
                                        0
                                            0
                                                 0
                                                      0
                                                               0
            0
                     0
                              0
                                   0
                                        0
PasserByVol:
                0
                          0
                                            0
                                                 0
                                                      0
                                                          \cap
                                                               Ω
Initial Fut:
            45 1201
                     0
                          0 675
                                 161
                                      190
                                            0
                                                45
          1.00 1.00 1.00
                        1.00 1.00
                                     1.00 1.00
User Adj:
                                1.00
                                              1.00
                                                   1.00 1.00
PHF Adj:
          1.00 1.00
                   1.00
                        1.00 1.00
                                 1.00
                                     1.00 1.00
                                              1.00
                                                   1.00 1.00
PHF Volume:
            45 1201
                     Ω
                          0
                             675
                                 161
                                      190
                                           0
                                                45
                                                      Λ
                                                          0
                                                               0
Reduct Vol:
            0
                     0
                          0
                             0
                                   0
                                            0
                                                0
                0
Reduced Vol:
            45 1201
                     0
                          0 675
                                 161
                                                45
                                      190
                                            0
                                                      0
                                                          0
                                                               0
PCE Adj:
          1.00 1.00
                  1.00
                        1.00 1.00
                                1.00
                                     1.00 1.00
                                              1.00
                                                   1.00 1.00
                                1.00
                        1.00 1.00
MLF Adj:
          1.00 1.00
                  1.00
                                     1.00 1.00
                                              1.00
                                                   1.00 1.00
FinalVolume: 45 1201
                     0
                          0 675
                                 161
                                      190
                                            0
                                                45
-----|
Saturation Flow Module:
Sat/Lane: 1700 1700 1700 1700 1700 1700 1700
                                              1700 1700 1700 1700
Adjustment: 1.00 1.00 1.00
                        1.00 1.00 1.00 1.00 1.00
                                              1.00 1.00 1.00
          1.00 3.00 0.00
                        1.00 2.42 0.58
Lanes:
                                     1.00 0.00
                                              1.00 0.00 0.00 0.00
Final Sat.: 1700 5100
                   0 1700 4118
                                982 1700 0
                                              1700
Capacity Analysis Module:
Vol/Sat:
          0.03 0.24 0.00
                        0.00 0.16 0.16
                                     0.11 0.00 0.03
                                                   0.00 0.00
                                                            0.00
              ****
                        ****
                                      ****
Crit Moves:
Green/Cycle: 0.09 0.64 0.00
                        0.00 0.55
                                0.55
                                     0.31 0.00 0.31
                                                   0.00 0.00
                                                            0.00
                  0.00
                                0.30
Volume/Cap: 0.30 0.37
                        0.00 0.30
                                     0.37 0.00
                                              0.09
                                                   0.00 0.00
Delay/Veh:
          43.7 8.3
                   0.0
                        0.0 11.9
                                11.9
                                     27.6 0.0
                                              24.8
                                                    0.0 0.0
User DelAdj: 1.00 1.00
                  1.00
                        1.00 1.00
                               1.00
                                     1.00 1.00
                                              1.00
                                                   1.00 1.00
                                                           1.00
                    0.0
                                 11.9
AdjDel/Veh: 43.7 8.3
                         0.0 11.9
                                     27.6 0.0
                                              24.8
                                                    0.0 0.0
                Α
                                        С
LOS by Move:
            D
                     Α
                          Α
                              В
                                   В
                                            Α
                                                 С
                                                     Α
                                                          Α
            2
               6
                     0
                          0
                              5
                                 5
                                        5
HCM2kAvqQ:
                                            0
************************************
Note: Queue reported is the number of cars per lane.
***********************************
```

Appendix F, Traffic Impact Analysis - page 472 City of Huntington Beach - DTSP Update Program Environmental Impact Report

CUMULATIVE (2020) WITH PROJECT WITH ALTERNATIVE 1 CONDITIONS

(ICU METHODOLOGY)

Cumulative (2020) + ProjectTue Jan 6, 2009 12:16:40 Program Environne Menulative ProjectTue Jan 6, 2009 12:16:40 ______

> Huntington Beach Traffic Impact Analysis Cumulative (2020) + Project AM Alt 1 no cross traffic

Scenario Report

Scenario: Cumulative (2020) + Project AM (Alt 1 no cross)

Cumulative (2020) + Project AM (Alt 1 no cross) Command: Cumulative (2020) + Project (Alt 1 no cross AM) Volume:

General Plan Build-Out Geometry: Default Impact Fee Impact Fee:

Trip Generation: None Trip Distribution: None

Default Path Paths: Routes: Default Route

Configuration: Existing

Page 2-1

W. J. J. Store Brook May 664 - Transact Brooks

Huntington Beach Traffic Impact Analysis Cumulative (2020) + Project AM Alt 1 no cross traffic

Intersection	Base	Future	Change		
	Del/ V/	Del/ V/	in		
	LOS Veh C	LOS Veh C			
# 5 Pacific Coast Hwy / 9th St	B xxxxx 0.620	B xxxxx 0.620	+ 0.000 V/C		
# 6 Pacific Coast Hwy / 6th St	D xxxxx 0.822	D xxxxx 0.822	+ 0.000 V/C		
# 7 Pacific Coast Hwy / Main St	B xxxxx 0.671	B xxxxx 0.671	+ 0.000 V/C		
# 8 Pacific Coast Hwy / 1st St	F xxxxx 1.006	F xxxxx 1.006	+ 0.000 V/C		
# 9 Pacific Coast Hwy / Huntington	B xxxxx 0.684	B xxxxx 0.684	+ 0.000 V/C		
# 16 Main St / Adams Ave	A xxxxx 0.547	A xxxxx 0.547	+ 0.000 V/C		
# 19 Main St / 6th St	A xxxxx 0.336	A xxxxx 0.336	+ 0.000 V/C		
# 22 1st St / Orange Ave & Atlanta	A xxxxx 0.353	A xxxxx 0.353	+ 0.000 V/C		
# 24 Beach Blvd / Pacific View Ave	A xxxxx 0.336	A xxxxx 0.336	+ 0.000 V/C		

Appendix F, Traffic Impact Analysis - page 475 City of Huntington Beach - DTSP Update Program Environmental Impact Report Cumulative (2020) + ProjectTue Jan 6, 2009 12:18:31

Huntington Beach Traffic Impact Analysis Cumulative (2020) + Project PM Alt 1 no cross traffic

Scenario Report

Scenario: Cumulative (2020) + Project PM (Alt 1 no cross)

Command: Cumulative (2020) + Project PM (Alt 1 no cross)
Volume: Cumulative (2020) + Project (Alt 1 no cross PM)

Geometry: General Plan Build-Out

Impact Fee: Default Impact Fee

Trip Generation: None Trip Distribution: None

Paths: Default Path
Routes: Default Route
Configuration: Existing

Cumulative (2020) + ProjectTue Jan 6, 2009 12:18:31

Page 2-1 ______

Huntington Beach Traffic Impact Analysis Cumulative (2020) + Project PM Alt 1 no cross traffic

Intersection	Base	Future	Change		
	Del/ V/	Del/ V/	in		
	LOS Veh C	LOS Veh C			
# 5 Pacific Coast Hwy / 9th St	B xxxxx 0.678	B xxxxx 0.678	+ 0.000 V/C		
# 6 Pacific Coast Hwy / 6th St	F xxxxx 1.021	F xxxxx 1.021	+ 0.000 V/C		
# 7 Pacific Coast Hwy / Main St	B xxxxx 0.640	B xxxxx 0.640	+ 0.000 V/C		
# 8 Pacific Coast Hwy / 1st St	F xxxxx 1.099	F xxxxx 1.099	+ 0.000 V/C		
# 9 Pacific Coast Hwy / Huntingto	n C xxxxx 0.768	C xxxxx 0.768	+ 0.000 V/C		
# 16 Main St / Adams Ave	C xxxxx 0.762	C xxxxx 0.762	+ 0.000 V/C		
# 19 Main St / 6th St	A xxxxx 0.498	A xxxxx 0.498	+ 0.000 V/C		
# 22 1st St / Orange Ave & Atlanta	A xxxxx 0.495	A xxxxx 0.495	+ 0.000 V/C		
# 24 Beach Blvd / Pacific View Ave	A xxxxx 0.397	A xxxxx 0.397	+ 0.000 V/C		